

CB

HORIZONS

August 1961

40 Cents

SPECIAL ISSUE

1962

**CB EQUIPMENT
DIRECTORY**

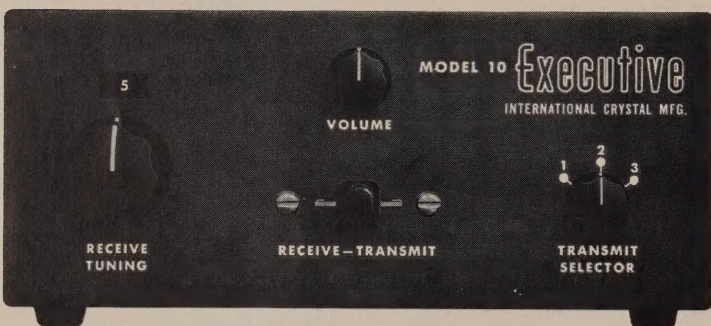
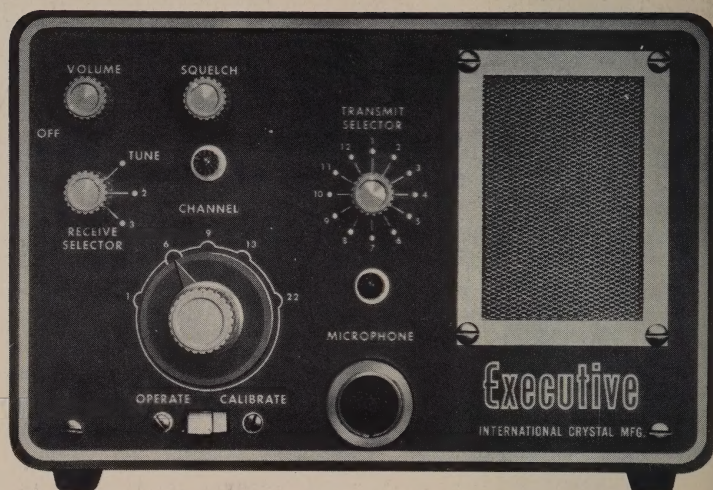
THE CITIZENS BAND RADIO MAGAZINE

A COMPLETE LISTING OF EVERY PIECE OF CB GEAR

Also in this issue . . .

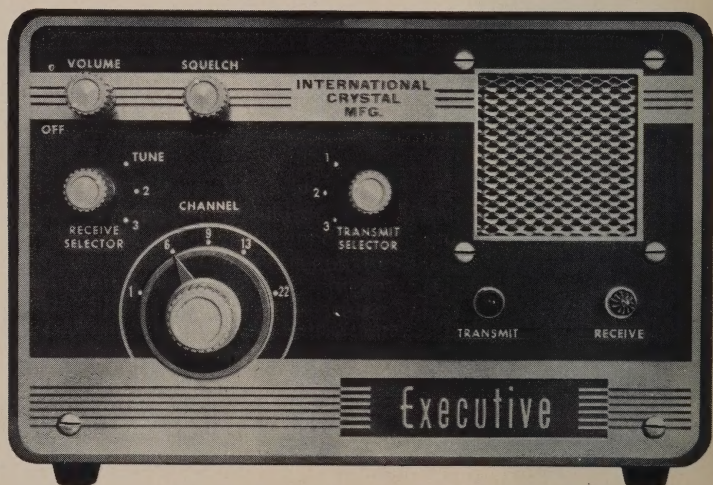
Construction Details—27 Mc. Quad that Really Works! • Buying Tips for CB Gear by Herb Friedman • TK on CB • FCC News • CB and Sunspots • Modesto Mike . . . and NEW — CB Tech Talk!

MODEL 100



MODEL 10

MODEL 50



INTERNATIONAL'S

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INTRODUCING THREE SYSTEM-ENGINEERED TRANSCEIVERS

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The ultimate in Executive Citizens transceivers. NEW crystal filter which minimizes adjacent channel interference in the receiver. NEW built-in receiver calibration circuit. NEW International NR squelch. NEW 12 position crystal control transmit channel selector. NEW front panel microphone jack. NEW provision for connecting external speaker and S/meter. Dual conversion superheterodyne receiver. Push-to-talk operation. Three way power supply for 6/12 vdc, 115 vac. **Complete with 1 transmit crystal, 1 receive crystal, new style ceramic microphone and coil cord..... \$199.50 ***

MODEL 10

International's exciting NEW Compact transceiver for the budget minded customer who desires quality workmanship and engineering plus the best possible circuit for the money invested. Field tested full 5 watt transmitter contained in the higher price Executives. Tunable superheterodyne receiver covering all 23 channels. Three position crystal control transmit channel selector. Manual transmit-receive control. Noise limiter. Available accessories include four separate power supplies — 6 vdc, 12 vdc, 24 vdc or 115 vac, push-to-talk relay kit, squelch kit, and 12 position transmit channel selector. **Complete with 1 transmit crystal, matching microphone and external speaker, but less power supply..... \$59.50 ***

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INTERNATIONAL CRYSTAL MANUFACTURING CO., INC.

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Modesto Mike's



Mailbox

Dear Mike,

I bought the July POPULAR ELECTRONICS to build an eleven meter QUAD antenna. At their suggestion I bought 100-feet of wire, eight 10-foot bamboo poles and other assorted antenna-type jazz. Spending some time putting the QUAD together I was shook-up to find that I would have had better luck loading my transmitter into a 102 inch piece of wet spaghetti. Help!! What did I do wrong?

John Guerrero
P. O. Box 788
Lompoc, Calif.

What did you do wrong? You bought the wrong magazine! The POPtronics "Cubical QUAD for CB" is cut for the 21 megacycle "15 Meter" Amateur band. Turn to Page four of this issue of CBH while we ask the question, "Will the real 11-Meter Quad please load up!" Ours is cut for 11-meters.

Mike

Howdy Mike,

Why didn't you send me a free sample copy of CB HORIZONS? I had to take my mobile whip and beat some 13W till he gave me an extra copy he had.

I should send you some more than this li'l ole four bucks, CBH is worth more. It promises to be a great magazine for us poor low powered people.

Homer E. Copely, 13W1510
320 N. E. 57th Ave.
Portland, Ore.

Sorry Homer, we can't send sample copies to everyone on the band. Your \$4.00 assures you of an issue each month. Any 13W who hoards an extra copy of CBH deserves to be whipped.

Mike

Mike—

Thought that you'd be interested in knowing that I subscribe to 6 monthly magazines besides several yearly publications (all radio), and CBH is the only one ever to explain and illustrate stacking antennas so that I can clearly and fully understand the technique. Thanks.

John N. Erlenbach, 2A4378
161 Packard Avenue
Wyckoff, N.J.

10-4 John, you'll find that CBH readers not only have the antennas "stacked" for them, they also have "the chips" stacked on their side. That's why we can say, "CB HORIZONS' readers are always the first to know, the best informed and the first to act!" (If you missed it, the article to which "4378" refers was in our last issue.)

Mike

Dear Mike—

The letter in your June issue from Ed (2W4580) and your reply sure gave me a laugh. Without the work of Amateur Radio, CB probably wouldn't exist today.

Don't think for a minute, Ed, that we need more hams! After all, we already have more of 'em than we know what to do with.

CB and ham radio are highly compatible —what hams can do is illegal for Cbers. Cbers, on the other hand, can (and do) provide excellent emergency communications in situations not well suited for hams.

Let's bury the hatchet and adopt a to-each-his-own attitude.

Norm Haffly, 12Q0680/W6FRQ
8964 Greenback Lane
Orangevale, Calif.

Right you are, Norm. Many Cbers automatically gravitate to hamdom without help anyway. For instance, Tom (2W1965), our Editor, has taken his ham exam because of Publisher Bob Cooper's interest in ham radio. Tom is in the process of sweating out his ticket from Washington right now!

Mike

Readers are invited to query me on any and all matters concerning CB. I'm at P. O. Box 3150, Modesto, Calif. 10-23 til September.

Modesto Mike

Cbers! Why not write articles for CBH? If you have something to say about a better way of using your equipment, a new construction project, etc., and can supply photos, your name can be immortalized on our pages. Pick up some money to put towards your "Dream Rig." Write to Tom Kneitel, our Editor.

WOW! LOOK WHAT'S UP AT CB HORIZONS!

In the September CBH . . .

These fantastic features for CB Radio Operators

A SPECIAL ISSUE

ALL ABOUT YOUR RIG

How To . . .

"Tune Your Antenna for *Maximum Performance*"

"Improve Your Receiver with an *Outboard RF Pre-Amp*"

"Repair Your Own Rig with *Simple Test Equipment*"

"Assemble Your Station For *Maximum Operating Ease*"

Plus . . .

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"Super-Performance Tubes *You Can Add to Your Rig*"

"A Complete Crystal Table, listing Your Rig and ALL Crystals Manufactured to Work in Your Rig"

And . . .

Pages and pages of "Hints 'n Kinks" from CB operators and clubs across the country . . . dozens of simple modifications and additions you can make at your base and mobile installations!

Of course . . .

CB TECH TALK—TK on CB — FCC NEWS
— ANTENNA TOPIX — FALL CB SKIP
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MIKE — CB SHOWCASE

CB Horizons—The Citizens Band Radio Magazine

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on the ENTIRE world of
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READ BELOW—ACT TODAY!

Dear CBH Gang:

----- I am mailing this form and my check (or money order) for \$4.00 before July 25. **Send me 15 ISSUES of CB HORIZONS.**

----- I am mailing this form and my check (or money order) for \$4.00 before July 31. **Send me 14 ISSUES of CB HORIZONS.**

----- I am mailing this form and my check (or money order) for \$4.00 before August 4. **Send me 13 ISSUES of CB HORIZONS.**

----- I am late (after Aug. 4). Here is my \$4.00 for 12 CB news-packed issues of CB HORIZONS.

NOTE—Only subscriptions received prior to August 6 will be assured receipt of the EXTRA-SPECIAL "FIX-UP YOUR RIG" issue of CB HORIZONS, for September 1961, out August 10th!

Name ----- Call -----

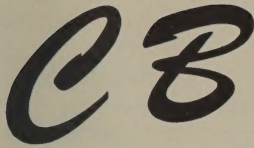
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CB HORIZONS MAGAZINE

**P. O. Box 3150
MODESTO, CALIFORNIA**



HORIZONS

Formerly DXing Horizons

PUBLISHED MONTHLY BY HORIZONS PUBLICATIONS
POST OFFICE BOX 3150 • MODESTO, CALIFORNIA

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ADVERTISING

CB HORIZONS magazine accepts commercial display advertising from bona fide manufacturers, distributors of electronic equipment and associated apparatus. Advertising rate card and coverage data available upon request.

CIRCULATION

This issue of CB HORIZONS is reaching 51,000 plus Citizens Radio Service operators throughout the United States. Detailed circulation breakdown available upon request.

SUBSCRIPTION

Subscription rates in the United States, Canada—\$4.00 per year. Single copies \$.40 each. Subscriptions outside the U.S.A. and Canada—\$4.00 per year. Subscription remittances should be made by bank draft or postal money order. Airmail subscription available at \$7.00 per year, U.S. and Canada.

TABLE OF CONTENTS

FEATURES

THIS ONE REALLY WORKS!

"Let's Clear the Air about QUADS" 4

SPECIAL ISSUE...

Exclusive - 34 Page Complete Guide!

1962 CB EQUIPMENT DIRECTORY

A Professional Engineer Tells How-to-Buy	7
Listing of CB Transceivers	8
Listing of CB Transmitters/Receivers/Converters	26
Listing of CB Antennas	27
Listing of CB Crystals	32
Listing of CB Meters	33
Listing of CB Accessories	35
A Few Tips on Buying Accessories	39

YOU ASKED FOR THIS BRAND NEW FEATURE!

"CB Tech Talk—Understanding SWR, a simple output indicator"	41
--	----

WHAT'S SKIPPING WHERE, AND WHEN, IN AUGUST?

"CB and Sunspots"	51
-----------------------------	----

DEPARTMENTS

MIKE'S MAILBOX	2
CLASSIFIEDS	40
T.K. ON CB	46

BEFORE WE SIGN OFF

"Late-Late FCC News (to July 6) you can't read in ANY other Magazine before October"	52
---	----

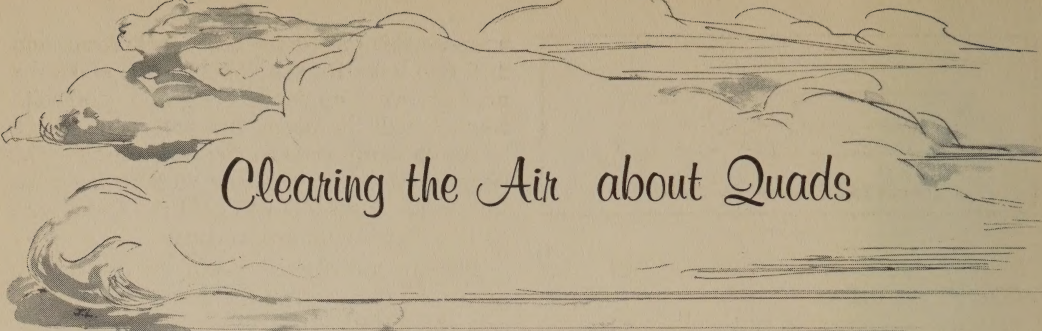
ANTENNA TOPIX, CB SHOWCASE, DX NEWS, on vacation until September. See bottom of page 40 for what's up next month.

Illustration credits: Cover—The Antenna Specialists. Directory—International Communications, Inc.; Hy-Gain Antennas; Marina Communications, General Radiotelephone; CDR Rotors; Shure Bros.

CB HORIZONS (title registered U.S. Post Office) entered as Third Class postage in Modesto, California May 10, 1961. Second Class postage pending. All copyright and editorial rights reserved by Horizons Publications, 1961.

POSTMASTER: Send Form 3547 to CB Horizons, Post Office Box 3150, Modesto, California.

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Clearing the Air about Quads

NINE DB FOR NINE DOLLARS

by

Charles Leedham, 2A3788

Seldom in radio communications can you buy yourself db's of gain at the bargain rate of \$1.00 each — but build yourself a Cubical Quad directional antenna for your CB rig and you'll get up to 9 db gain both transmitting and receiving, and for less than \$9.00 worth of material. Its easy to build, too.

Hams have been using the Quad for years, and if you listen in on their bands, you will hear Quad-users comparing their antennas favorably to the best three-element beams. The Quad is exactly as good for 11 meters, being different only in dimensions.

Exact measurements of the Quad's gain are hard to come by — all antenna gain measurements are in comparison to a "standard dipole" under ideal conditions, and nobody has yet taken the time and trouble, on 11 meters, to set up these conditions and take precise measurements. But such work as has been done shows that a well-built Quad will deliver a minimum of 6 db. gain (multiplying your power by four). Well tuned and mounted in good surroundings — no tall buildings nearby, etc. — it will deliver 9 db., effectively multiplying your power by eight and giving you the equivalent of forty watts input.

One of the very great advantages of the Quad for CB work is that with its top exactly twenty feet up, its lowest wire is eleven feet above the mouting surface, well over a quarter-wave. Thus it operates quite efficiently in a situation where a vertical beam is at a definite disadvantage. Even at CB-restricted heights, it has a very low angle of radiation.

Basically, the Quad consists of two square "loops" of antenna wire, a quarter wavelength long on each side, and placed less than a quarter-wave apart to form a sort of squashed

cube (thus the name, Cubical Quad). One loop is fed at the center of the bottom side of the square by the transmission line, and is the power radiator. The other loop, although of exactly the same dimensions as the radiator, is tuned to a slightly lower frequency by a stub, and acts as a reflector. The Quad radiates exactly like a beam, perpendicular to the plane of the radiator (along the line of the boom) and away from the reflector.

Each loop of the Quad is held in "square" form by four bamboo poles (spreaders) attached to one end of the boom, and that is literally all there is to the antenna itself. The total weight of the Quad is: two 37-foot loops of wire, eight light bamboo poles and a light wooden boom. Mount the Quad on your mast and you have an unbeatable antenna for communicating with a distant station, particularly if that station also features a Quad. Put it on a TV rotator and you can follow a moving mobile at a considerable distance, or swing it to punch your signal through to widely separated fixed stations.

Building and operating the Quad is easy — even if you are a novice at construction projects and CB, don't let the terms and technicalities scare you off. You don't need to know a thing except how to solder and follow instructions. Even the necessary terms to come — tuning stubs, sliding shorts, balancing sleeves — are only for background. Follow the instructions carefully and you'll have a directional antenna that works, even if you're not sure which end of a tube goes into the socket.

SLIGHTLY TECHNICAL DETAILS

The radiator of the Quad is a balanced antenna with an impedance of approximately

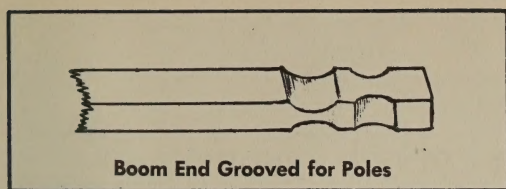


Figure 1

75 ohms. It is most efficiently fed with RG59/U coaxial cable, which has an impedance of 73 ohms. If you already have 52-ohm RG58/U feeding your present antenna, this can be used to feed the Quad, with only a slight impedance mismatch.

What is needed, however, is a device to convert the unbalanced state of the pi-network outputs of most CB transmitters to a balanced feed for the Quad. This is very neatly and easily accomplished by a balancing sleeve (technically a "concentric balun") at the antenna end of the transmission line.

If by chance you now already have an antenna coupler such as the famous Matchbox, Johnson Viking Matchbox, model 250-23, lists \$54.95, which does the line balancing for you, you won't need the sleeve, so just ignore that part of the construction, and feed the Quad directly from your transmitter and coupler.

The Quad reflector is identical in dimensions to the radiator, but tuned to a lower frequency by means of a sliding short on a tuning stub. Thus it reflects the outgoing waves from the radiator in transmission, and the incoming waves to the radiator (acting as the receiving antenna) in reception. Incoming signals from the back of the Quad are sharply cut, and signals from the side are practically not there.

Because of its extreme lightness, the Quad will survive very strong winds — there is hardly any wind load to speak of. It will whip and bend somewhat in the wind, but if it is tightly wired together it will stay up in winds that bring regular beams down.

Construction

The first step is the preparation of the 2 by 2 main boom. At each end, file or sand shallow grooves as illustrated in Figure 1, to eventually set the bases of the bamboo spreaders into. A half-round file works very well for this, or you can wrap sandpaper around a thick dowel. Next, make a groove exactly in the center of the boom (in one angle of the 2 by 2, not a flat side), Figure 2, to fit whatever size mast you will be using. Flatten an area

opposite this groove for the U-bolt strap, and drill two holes for the U-bolt arms. Make the mast groove deep enough to give a good solid contact with the boom, but not deep enough to substantially weaken the boom itself — the boom must be mounted on edge to the mast so that the spreaders will hold the Quad with its sides horizontal and vertical.

Prepare the lower boom by making a groove for the mast in the center (on the flat side this time) and drilling holes for the U-bolt arms. Now prepare the bamboo poles by wrapping several turns of black plastic electrical tape tightly midway between each joint, to retard future splitting of the poles.

Finally, give both booms and the poles two coats of deck varnish or good quality house-paint. Pay special attention to the ends of the booms where the raw grain is exposed. You can, if you want to make your completed Quad less conspicuous against the sky, make the paint a flat light blue or grey — but definitely give booms and bamboos some sort of weather protection or they will warp and rot in short order.

All the electrical wiring of the Quad can be done inside, where your soldering iron is handy, and then strung on the assembled framework outside.

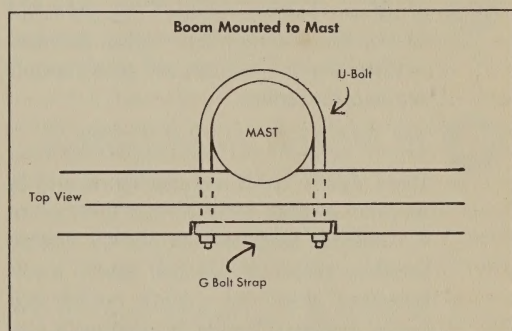


Figure 2

The first wiring step is the preparation of the balancing sleeve. Cut a clean end on your coax and slip the eight feet of ¼-inch shield braid (RG8/U, etc.) onto the RG-59 fecoer cable. Quarter-inch braid doesn't look as though it will go on, but if you spread it slightly as you work (the process is very similar to the familiar method of getting the belt back into the pajama bottoms) you'll find that it slips on quite easily. With four inches of the RG-59/U coax protruding from one end of the braid, tape the end of the braid firmly to the coax jacket with several turns of electrical tape.

Now—from a world leader
in communications equipment
the **HAMMARLUND**
HQ-105-TR



*24 hr. clock-timer
optional \$9.95

3 in 1 TRANSCEIVER

- 1 CB TRANSCEIVER**— A maximum power transmitter and all-channel (22) receiver.
- 2 SWL RECEIVER**— 540 KCS to 30.0 MCS coverage for overseas, communications, amateur, marine, and even standard broadcast reception.
- 3 10 METER HAM TRANSMITTER** Easily and quickly retunes to 10 meter amateur band (when proper license is obtained). Supplied with one CB crystal. Receiver covers all amateur bands within frequency range. Get a boost toward your novice or general license by receiving WIAW code practice lessons.

This is it! A transceiver that combines all your needs for Citizens Band, Short Wave Listening, and 10-meter Ham Operation. An unbelievable value from a world-recognized leader in communications equipment. American made of American components.

ONLY \$219⁵⁰

WRITE FOR less speaker and microphone
COMPLETE DETAILS . . .



Since 1910

HAMMARLUND

Hammarlund Manufacturing Company, Inc.,
460 West 34th Street, New York 1, N. Y.
In Canada: White Radio, Ltd., 41 West Ave., N. Hamilton, Ont.

Stretching the braid snugly along the coax as you go, work right down the braid, spiraling the tape with a slight overlap until you have covered about 5½ feet. Six feet from where the braid began (6 feet and 4 inches from the end of the coax), strip an half-inch of the vinyl covering from the coax to expose a narrow band of the coax's own shield. Be careful not to cut the coax shield when you strip the covering. Then trim the outer braid (the balancing sleeve) to fit—six feet over-all—and solder it to the coax braid, being careful not to use so much heat that you melt the inner insulation.

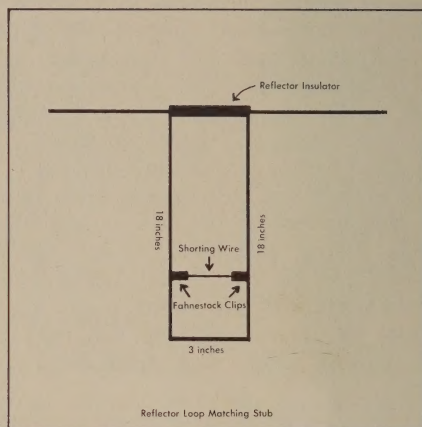


Figure 8

When the joint has cooled, continue spiraling the tape until you are an inch or two below the joint and finish off with two or three tight turns. The balancing sleeve is completed, and if you have wound the tape snugly, it is relatively weatherproof.

Next, take the roll of No. 14 enameled wire and strip the enamel from the first six inches with a file or sandpaper. Be sure the end is bright and clean or you will be unable to make a good solder connection to the transmission line. Fasten the end securely to one end of an insulator and measure 4 feet and 7½-inches from the center of the insulator. Make a sharp bend in the wire at this point, and mark the bend with a sliver of white adhesive tape. This makes half of the lower side of the radiator's square loop. (Working with No. 14 wire is a little like working with a clothes hanger, so try to keep the wire straight except where you make necessary bends.) Then measure three sides of the square, 9 feet and 3 inches each, making a sharp bend at each corner and marking each

(Continued on page 43)

Selecting Your CB Transceiver

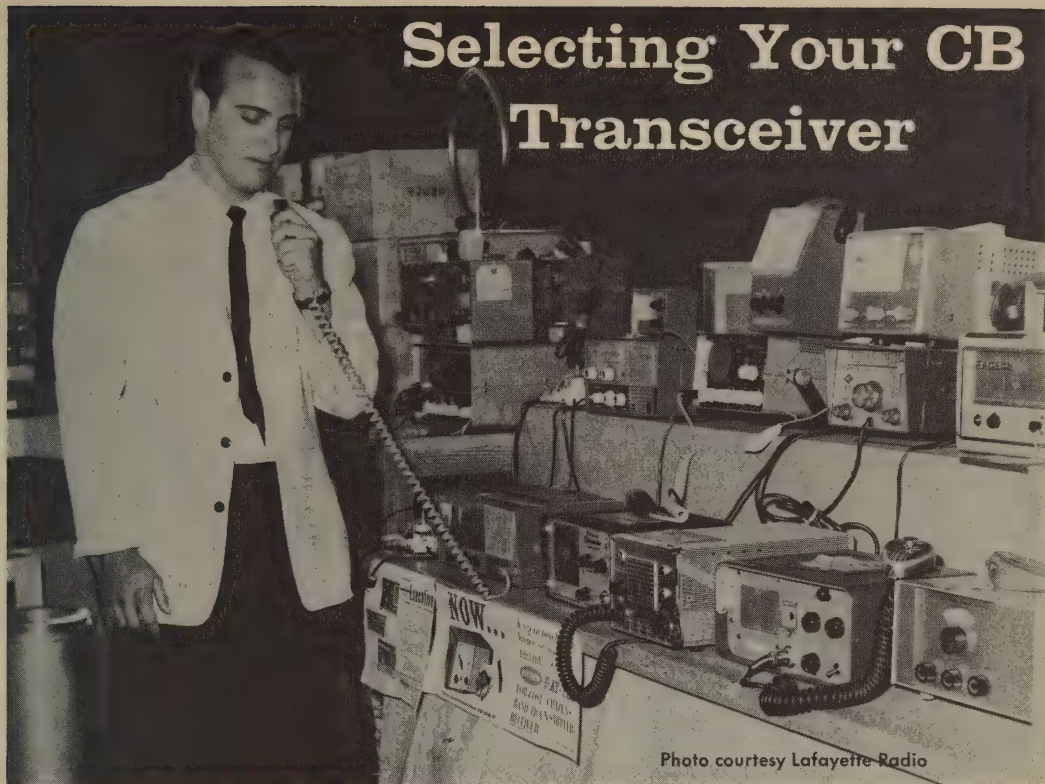


Photo courtesy Lafayette Radio

*Herbert Friedman, 2W6045/W2ZLF
CBH Eastern Technical Rep.*

If you are about to purchase your first CB rig or are ready to trade-up, you have probably been overwhelmed in a sea of equipment, making the choice of the proper transceiver somewhat difficult.

Modesto Mike, always right-on the Cbers' problems has made the task easier by assembling the biggest and most complete CB directory ever to appear in print. Here you will find equipment to fit every budget and use.

As you read through the directory you will notice transceivers offer a wide selection of features, ranging from coiled cords on push-talk microphones, to highly selective receivers. By listing (and do it on paper) the features you require, the proper decision can be made *the first time*. Remember, no one is more unhappy than the CBer who has purchased equipment not suiting his needs.

Since transceivers range in price from fifty to over two hundred dollars, they obviously cannot all be equal in performance; yet, every model offers something to someone.

Price and Selectivity

When price is an important consideration,

the choice is not too difficult as Budget Transceivers have (more or less) similar features; and all these units give good performance, particularly in areas of low CB activity. For farms, construction and survey crews, light family use and hobbyists, the Budget models give good value for the money. However, the lack of selectivity, which is the ability to reject adjacent channel interference, is a limitation in high activity areas and consideration should be given in this instance to a more selective receiver.

With some exceptions, which can be determined from the specifications in the directory, the higher the price, the higher the selectivity.

From about one hundred dollars up, the selection of a transceiver becomes more complex, since, within a given price range transceiver features can differ markedly.

Your Use of CB

When choosing equipment classed above the Budget models, particular consideration must be given to the use the CE rig will be put. As an example, consider what features would be required by a service or towing operator who's only requirement of communications is that both he and his trucks hear questions and instructions.

To start with, he would need adequate selectivity, and this is virtually no problem in the more expensive transceivers (over one hundred dollars). The most satisfactory results would probably be obtained from a crystal controlled receiver. The crystal control will insure that the equipment is always tuned to the operating frequency. Aging of tubes and varying truck voltages will not cause the receiver setting to change, insuring reception with a minimum of attention. Quite possibly, he would want his transceivers equipped with extra channels to get around the interference caused by other stations and by industrial radiation in metropolitan areas.

On the other hand, someone who is interested in CB primarily for personal use or channel-hopping would find that a crystal controlled receiver in conjunction with variable tuning would probably give the most satisfactory performance; the crystal control useful for club activities, the advantages of variable tuning being self evident.

Services in the "vital communications group," such as fire, police and municipal services as well as business organizations in areas with very high or saturated CB activity should consider a transceiver with a receiver section having high selectivity and sensitivity. By using multiple low frequency i.f. stages, crystal or mechanical filters, they achieve an extreme degree of selectivity, being virtually free of adjacent channel interference. Their extra sensitivity makes these units particularly effective when operations are extended beyond the edges of the normal reception fringe area.

And speaking of fringe area, manufacturers are starting to add speech limiting (clipping); a means of sustaining a consistently high level of modulation. Whether you lower your voice, or back off the microphone, the transmitter is always fully modulated. I suspect that this feature will come into more frequent use since it is an effective means of improving fringe area operation (the per cent of modulation has a direct bearing on whether a weak signal can be heard over the noise level).

More Features

Another feature of use to many operators is a telephone handset. Some transceivers come equipped with a handset or are wired such that a handset can be easily added. Not only does the handset insure "telephone privacy," but "speaker blasting," which can be very annoying in a quiet office, is eliminated. Also,

(Continued on page 10)

Editor's Note

A word about the directory.

This is the first time a complete directory of all CB equipment has ever been attempted. Possibly we have inadvertently overlooked one or two manufacturers, if you notice this we hope that you will bring it to our attention.

This is by no means a "catalogue," we did not intend it to be. It is intended to be a guide to the equipment now in use and we have therefore not included all of the features of each unit, just the basic points. Further details on the equipment in this directory may be obtained directly from the manufacturers, or if you prefer, you can list all the equipment you want additional information on a single sheet of paper and send it to us — we'll see that it gets into the proper hands. Several manufacturers have indicated that CBH readers who inquire will receive special material so *be sure* to mention CBH when you write directly for catalogues or other information. Here are the abbreviations used:

NIICP — No info. if currently produced

NCEP — Not currently being produced

PNA — Price not available

10-7 T.K.

TRANSCIVERS

ACTION LABORATORIES, INC.

533 Main Street
Acton, Massachusetts



MODEL TCV-272

Dual conversion receiver with 7 tubes incl r.f. stage. Noise limiter and squelch. Better than 1 μ V sensitivity. Four tube transmitter.

TCV-271 (1 chan trans/rec) NCBM

TCV-272 (3 chan trans/rec) NCBM

TCV-273 (6 chan trans/rec) NCBM

AIRTONE and AIRLINE

No information available.

ALL STATE

No information available.

APELCO COMPANY
213 East Grand Avenue
S. San Francisco, Calif.



MODEL AR-9

3 tube transmitter, 7 tube superhet receiver with 1 i.f. and 1 r.f. stage. 5 transmit/receive channels, squelch, a.n.l. Receiver has 1 μ V sensitivity. Marine construction, Mil Spec type chassis, epoxy protected, splash proof cabinet, snap clamp mount. 12AQ5 tube in final. 12/32VDC-115VAC.

AR9 \$179.50

• • •

ARKAY INTERNATIONAL, INC.

88-06 Van Wyck Expwy.
Richmond Hill 18, N.Y.



MODEL SQ-9

3 transmit/receive channels, a.n.l., squelch. Super-het receiver (single conversion), 1 μ V sensitivity. 6AU8 in final. 12VDC/117VAC operation. Kit or wired.

SQ-9 (Kit) \$ 79.95

SQ-9W (Wired) \$119.95

• • •

ARROW ELECTRONICS, INC.

65 Cortlandt Street, New York 7, N.Y.

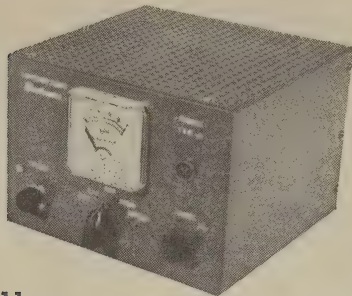


AGS-RT-101

Part 15 handie-talkie. Transistorized single channel unit. Receiver sensitivity 1 μ V. Tunes AM broadcast band. Leather carrying case, earphones, telescoping antenna. Operates on 6 penlight batteries.

Model AGS-RT-101 \$70.00

J. WILBUR BABB ELECTRONICS
202 W. Seminole, McAlester, Oklahoma



TRA-11

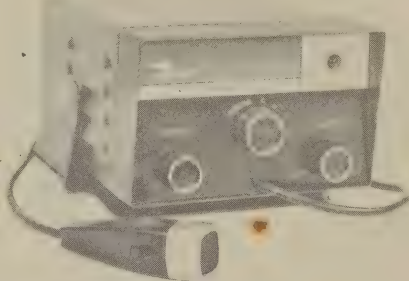
Combined 2 channel transmitter and converter which may be powered from receiver or separate power supply, 2 tubes in converter, 5 tubes in transmitter. Plate modulated transmitter. Meter on front panel for tuning.

TRA-11 \$87.00

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BENDIX-PACIFIC DIVISION

8211 Lankershim Blvd., N. Hollywood, Calif.



BENDIX CB TRANSCEIVER

4 channel transmit/receive unit. Modulation and transmitter running indicator on front panel. Automatic noise limiting. 8 tube unit, 6CX8 in final, superhet receiver. Less than 2 μ V sensitivity.

CB-6 (6VDC/117VAC) \$159.00

CB-12 (12VDC/117VAC) \$159.00

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BIGGS ASSOCIATES

Church and Mill Sts., Utica, Illinois
(last known address)



LaSALLE 101

Five channels for transmit/receive. Automatic noise limiter, squelch. Superhet receiver has 1 r.f. and 3 i.f. stages. 6/12VDC/115VAC.

La-101 \$159.95

since the handset feeds the receiver output directly into the ear, it is useful in overcoming high room or external noise.

Another convenient circuit, which should be considered by garages, boat marinas and other shops in which the staff is constantly on the move, is in the "in-built alarm circuit"; which will probably be used by many manufacturers in the future. A transceiver equipped with an alarm circuit need not be attended, since an incoming signal will ring a bell or buzzer located any reasonable distance from the transceiver.

And while we are on special features, don't forget the very common circuit, push-to-talk. While mobile-in-motion is not the best method of operating, it is done; and for safety's sake, your budget notwithstanding, any transceiver used in mobile service should be equipped with push-to-talk. It is foolish to have to reach across the seat of a moving car in order to switch the transceiver; remember, the less distraction from the business of driving—the better!

Now let's consider an often over-voiced item, the case housing the transceiver. Water spray, particularly salt water, can play havoc on a metal case, so if you cannot protect a boat mounted transceiver from spray, investigate a transceiver utilizing a plastic or epoxy case.

There are many more useful features and we will end this section by noting two of these; the S-meter and the power output meter. Usually these two meters are combined in one unit. The S-meter being an indicator of relative signal strength is useful in assisting the other fellow tune his equipment. The power output meter will indicate when your rig is tuned to a "full five," and it will indicate when your transmitter tubes are "going soft." As your tubes get weaker the power output will drop. While the S-meter can be considered a luxury feature, the power output meter is very useful to insure peak performance from your transmitter.

Walkie and Handie-Talkies

Recently, two new types of transceivers have appeared in considerable quantity; the walkie and handie-talkies.

The walkie-talkie is generally a transistorized "full feature" transceiver with power outputs of one-half watt or more, selective receivers, push-to-talk, squelch, etc.

Because transistors have low power require-

(Continued on page 12)

BROWNING LABORATORIES

100 Union Ave., Laconia, N.H.



MOBILE

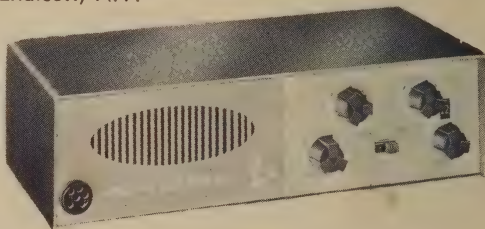
4 transmit/receive channels. Receiver is superhet with 1 r.f. stage, 3 i.f. stages, double conversion. Adjustable squelch, a.n.l. Has front panel antenna current light. Transmitter has 5763 in final. Unit operates on 6VDC/115VAC or 12VDC/115VAC. 8 tube receiver, 4 tube transmitter, 2 transistors in power supply.

MOBILE ----- \$159.50

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CADRE INDUSTRIES CORP.

Endicott, N.Y.



MODEL 500

Fully transistorized 5 channel transceiver with 17 transistors, 8 diodes. Also has tunable receiver, adjustable squelch. Receiver has 1 uV. sensitivity (maximum). Operates from 12VDC/120VAC. Weighs 6 lbs. 5 watts input to final.

Cadre 500 ----- \$199.95

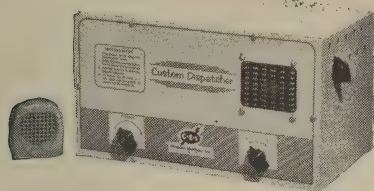


MODEL 100-MW

Fully transistorized handie-talkie transceiver weighing 20 ounces. 7 transistors, 1 diode. Operates from 1 12-volt mercury battery. Telescoping 47" antenna. Single channel transmit/receive.

Cadre 100-MW ----- \$124.95

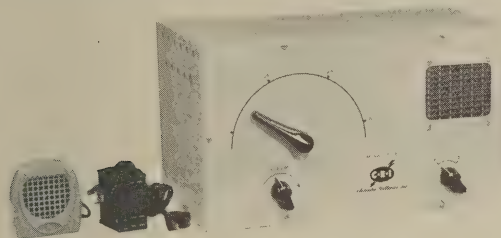
CHICKASHA ELECTRONICS, INC.
Chickasha, Oklahoma



CUSTOM DISPATCHER

Two transmit/receive channels, superhetrodyne receiver with r.f. stage, squelch, a.n.l., operates on all voltages. 6AU8 in final. Kit or wired.

CUSTOM DISPATCHER NIICP



MODEL 1000-D

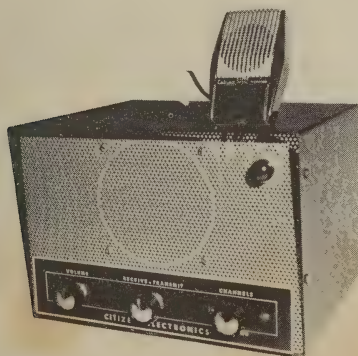
Same features as Custom Dispatcher except unit has tunable receiver which will receive all 23 CB channels plus 10 meter Amateur band. Kit or wired.

MODEL 1000-D NIICP

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CITIZEN ELECTRONICS

P. O. Box 443, Laurelton, N.J.



MODEL A

Single channel transmitter with super-organative receiver. 110VAC.

MODEL A NIICP

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COMMERCIAL SSTR

No information available.

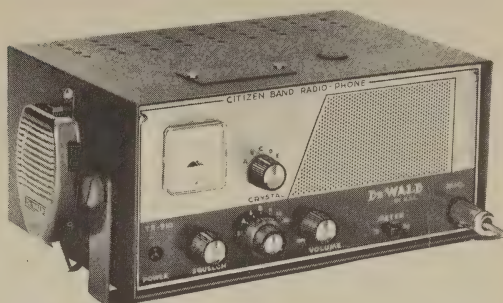
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DARE

No information available.

DeWALD

35-15 37th Ave., Long Island City 1, N.Y.



MODEL TR-910

5 channel transmit, tunable receiver with superhet circuit. Built-in S-meter and plate current meter. Receiver features r.f. stage, noise limiter. Operates on 117VAC or 6 and 12VDC with power supplies.

TR-910 \$99.95

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DUNLAP ELECTRONICS, INC.

764 9th Street, Des Moines 14, Iowa
(last known address)



MODEL SCBT-1 STANDARD

Single channel transmit/receive with 7 tube receiver, 2 tube transmitter. Squelch, T/R switch on front panel. Etched-circuit chassis. 6VDC/117VAC, 12VDC/117VAC. Kit and Wired.

MODEL SCBT-1 NIICP

MODEL DCBT-1 DELUXE

Same as SCBT-1 but with push-to-talk.

MODEL DCBT-1 NIICP

MODEL CCBT-1

Same as DCBT-1 but for truck mounting in mobile unit with remote control head. Shock mounted base. Two channels.

MODEL CCBT-1 NIICP

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E.C.I. ELECTRONICS COMMUNICATIONS INC.

325 No. MacQuesten Parkway, Mt. Vernon, N.Y.



ments, these units can operate from light-weight, rechargeable battery packs; their small size and weight making them particularly attractive for field use. Campers and hunting parties will find them very useful as base stations when used in conjunction with handie-talkies. The base station walkie-talkies can be left on "squelch," always ready to "sound off" when a handie-talkie calls in.

The handie-talkie is transistorized and hand sized, usually using simple receiver circuitry with transmitters limited to under 100 milliwatts. It has a dependable range of up to one mile depending on terrain and a fringe range of up to about three miles. As mentioned, they are particularly useful when used in conjunction with walkie-talkie equipped field groups.

Before you can make an intelligent choice you must accept an important fact—the manufacturers of CB equipment are reputable companies with reputations to protect, they intend to be in business a long time and they can only do this by giving satisfaction. Whatever the price of the CB rig, you can be sure the manufacturer has endeavored to give at least fair value for your money.

10-7 H.F.—2W6045



COMPACT PACKAGE

ONLY 1/5th THE SIZE!

What could be neater than the ALL NEW... ALL TRANSISTOR OSBORNE 300? Here is a new level of "Class D" 2-way radio communication. Only 1/5th the size and weight of average CB equipment. Requires only 10% of normal power drain of standard 27 mc equipment. Rugged die-cast case, 9 transistor complement, noise immune squelch circuit. Only \$149.50.

OSBORNE ELECTRONICS CORP. Dept. A-24
13105 S. Crenshaw Blvd. • Hawthorne, Calif.
Please rush me complete details on your Osborne 300

NAME _____
ADDRESS _____
CITY _____ ZONE _____ STATE _____

COURIER 1

12 transmit channels with tunable receiver which may also be fixed-tuned. Receiver has 9 tubes, 6 of which are dual. Transmitter has 5 tubes, 3 of which are dual, giving set 23 tube operation. Receiver has following features: triple conversion, 2 stages of 262 kc. i.f., crystal spotting, noise limiter, "S" meter, squelch triggered by 0.1 uV. signal. Transmitter features r.f. meter, front-panel r.f. gain control. Set has universal power supply, unitized chassis (5 separate cadmium plated units) slides out of all chrome cabinet on tracks. 6EM5 tube in transmitter final.

COURIER 1 \$189.50

COURIER 1-AM

Same as Courier 1 model except with AM broadcast band.

COURIER 1-AM price not announced

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EXCELLO-WEBSTER ENTERPRISES

2020 Cummings Drive, Los Angeles 27, Calif.

MODEL E-NBF-X11

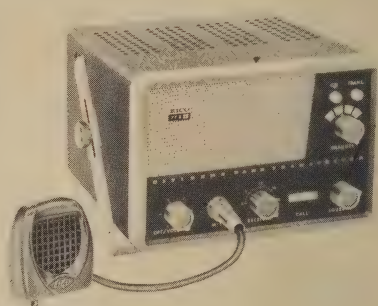
Customized rig built-up from famed U.S.N. "NBF" transceiver chassis. Has tunable receiver, squelch, crystal spotter, front-panel antenna tuning also peaking for both buffer stages and final. Meter reads S-units. Handset or speaker operation. 12 transmit channels.

E-NBF-X11 \$495.00

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EICO ELECTRONIC INSTRUMENT CO., INC.

33-00 Northern Boulevard, Long Island City, N.Y.



MODEL 770, 771, 772

Four transmit channels with tunable superhet receiver. 5 tubes in transmitter, 8 in receiver, 2 i.f. stages, 1 r.f. stage. 1 receive channel xtal. controlled. Push-to-talk, squelch, a.n.l., 12BY7 in final.

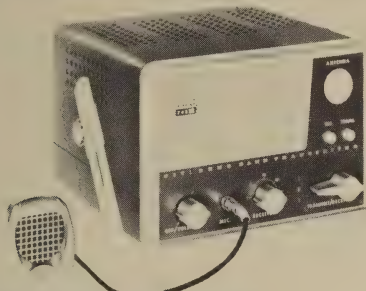
MODEL 770 (117VAC) \$ 99.95
MODEL 770-Kit (117VAC) \$ 69.95
MODEL 771 (6VDC/117VAC) \$109.95
MODEL 771-Kit (6VDC/117VAC) \$ 79.95
MODEL 772 (12VDC/117VAC) \$109.95
MODEL 772-Kit (12VDC/117VAC) \$ 79.95



MODEL 740

Handie-talkie unit with 100 mw. power. 5 transistors in transmitter, 7 in receiver with 2 i.f. stages. Single channel transmit/receive with xtals. included. Operates from 9.6 VDC nickel-cadmium battery (included). Transistor in final is Texas Instrument R-424. Telescoping antenna.

MODEL 740 \$79.95
MODEL 740-Kit \$54.95



MODEL 760A, 761A, 762A

Three transmit channels, tunable superhet receiver, 2 i.f. stages and 1 r.f. stage. T/R switch on front panel. A.n.l. Final has 12BY7. 5 tube transmitter, 7 in receiver.

MODEL 760A (117VAC) \$89.95
MODEL 760A-Kit (117VAC) \$59.95
MODEL 761A (6VDC/117VAC) \$99.95
MODEL 761A-Kit (6VDC/117VAC) \$69.95
MODEL 762A (12VDC/117VAC) \$99.95
MODEL 762A-Kit \$69.95

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ELECTRA INTERNATIONAL CO.

1346 Foothill Blvd., La Canada, Calif.



MINIPHONE 400—MARK II

Transistorized handie-talkie with 100 mw. input. Transmitter has 2 transistors, superhet receiver with 3 i.f. stages and 1 r.f. stage has 7 transistors plus 2 diodes and 1 thermistor. Comes with special paging antenna, noise limiter, adapter for under-collar antenna, pocket/belt clip. Operates from rechargeable 9VDC battery or from 115VAC with converter.

MINIPHONE 400—MARK II \$89.75

MINIPHONE 400—MARK I

Similar to Mark II except without noise limiter.

MINIPHONE 400—MARK I \$74.95

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ELECTRONICS

16103 Biltmore, Detroit 35, Michigan

Handie-talkie (Wired) \$49.95
Handie-talkie (Kit) \$29.95

ELECTRONICS DESIGN CO.

400 E. Cornell Street, Enid, Oklahoma

MODEL 100-C UNICOM

Single channel unit. Receiver has r.f. amplifier and 2 stages of i.f.; squelch and noise limiter. Models for 6 and 12VDC and for 117VAC.

MODEL 100-C UNICOM (a.c. model) \$235.00

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FORNY INDUSTRIES, INC.

Fort Collins, Colorado

MODEL FCB-5

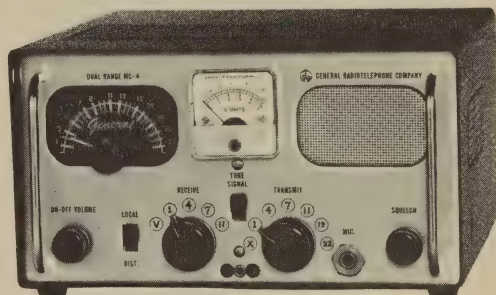
Five transmit/receive channels with superhet receiver having 2 i.f. stages and 1 r.f. stage. Transistor power supply. Unit has squelch, 10 tubes with 6AQ5 in final. Operates from 115VAC/12VDC.

CBD-5 PNA

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GENERAL RADIOTELEPHONE CO.

2806 West Burbank Blvd., Burbank, Calif.



MODEL MC-4

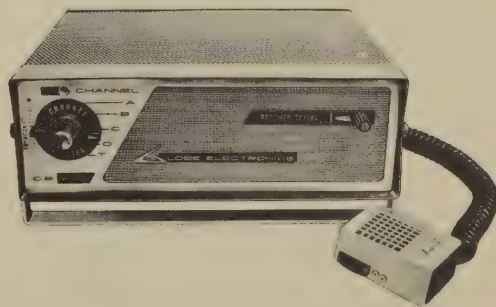
6 channel transmit plus external crystal socket for all-channel transmit. Receiver has 3 stages of i.f. plus r.f. amplifier, tunes all channels or 4 fixed channels. Transmitter features Class A modulation and is designed with 6GM5 tube to handle inputs up to 15 watts. Pulsed tone-signal device for reaching remote units. For all operating voltages.

MODEL MC-4 \$199.95

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GLOBE ELECTRONICS

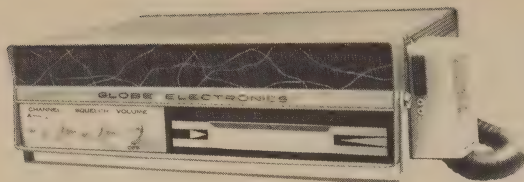
400 S. Wyman Street, Rockford, Illinois



MODEL CB-200 BROADCASTER DELUXE

5 channel transmit/receive with additional feature of tunable receiver. Receiver has dual conversion, squelch, noise limiter. Operates from 115VAC/6VDC or 115 VAC/12VDC.

CB-200 \$189.95



MODEL G-12

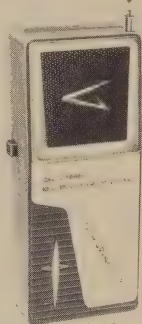
Four channel transmit/receive unit. Receiver has less than 2 μ V. sensitivity. Also squelch, a.n.l., pi-output network. 6CX8 in final. Operates from either 117VAC/6VDC or 117VAC/12VDC.

G-12/3316 (117VAC/12VDC) \$149.95
G-12/3329 (117VAC/6VDC) \$149.95

MODEL CB-100A CITIZENS BROADCASTER

3 channels for transmit/receive, with a.n.l., squelch and jack for remote speaker. New model has 12AZ7 speech amplifier tube. Operates from 115VAC/6VDC or 115VAC/6VDC.

CB-100A \$139.95



POCKETPHONE

Handie-talkie type unit with 9 transistors, 1 thermistor and 1 diode. Receiver has 2 i.f. stages. Transmitter has push-pull Class B modulation. Unit operates from rechargeable nickel cadmium battery.

POCKETPHONE \$125.00



SILENT-FONE 65-040

Single channel unit designed for operation in high noise level areas. Unit has 11 transistors, built-in a.n.l., rechargeable nickel cadmium batteries, 2 i.f. stages in dual conversion receiver. Push-pull modulation.

SILENT-FONE 65-040 P.N.A.

GONSET

801 South Main Street, Burbank, Calif.



GROVE ELECTRONIC SUPPLY CO.

4103 W. Belmont, Chicago 41, Illinois



G-12 KIT

Single channel 4 tube transmitter with 3 tube superregenerative receiver. Kit.

110 Volt Model \$19.95
12 Volt Model \$22.95
6 Volt Model \$22.95

THE HALLICRAFTERS COMPANY

4401 W. 5th Avenue, Chicago 24, Illinois



MODEL CB-3 LITTLEFONE

8 channels for transmit/receive. Receiver has 2 i.f. stages, 1 r.f. stage with double tuned input. Transmitter has 4 tubes, receiver has 7. 6AW8A in final. Unit has squelch, a.n.l., operates from 117VAC/6VDC or 117VAC/12VDC. Receiver sensitivity less than 1 μ V.

CB-3 \$149.50

THE HAMMARLUND MFG. CO., INC.

460 W. 34th Street, New York 1, N.Y.



MODEL HQ-105TR

Single channel transmit with 10 tube receiver which tunes the entire radio spectrum from 540 kc. through 30 mc. Receiver has 2 i.f. stages, 1 r.f. stage with 1.75 uV. sensitivity. Also S-meter, BFO, noise limiter, Q-multiplier. Optional clock-timer turns set on and off automatically. 105-125 VAC. 6CX8 in final. Speaker not included.
HQ-105TR \$219.50

HARTMAN MARINE EQUIPMENT CORP.

30-30 Northern Blvd., Long Island City 1, N.Y.



TINY-TALKIE MODEL

Handie-talkie type unit with 7 transistors and 1 diode. Receiver features superhet circuit. Operates from 2 6VDC batteries.

TINY-TALKIE (pair) \$129.95

HEATH COMPANY

Benton Harbor 10, Michigan



MODEL GW-10

3 channels for transmitting, tunable superhet receiver with additional feature of one fixed channel. Squelch, a.n.l., illuminated dial. 117VAC/6VDC or 117VAC/12VDC.

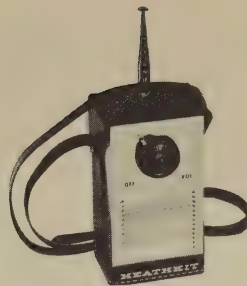
GW-10 (Kit) \$62.95

GWW-10 (Wired) \$99.95



MODEL GW-31

Transistorized handie-talkie unit. No info available on this new unit yet.



MODEL GW-30

Transistorized handie-talkie unit with single channel transmitter and single channel superregenerative receiver. 4 transistors in circuit. Powered from 1 battery.

GW-30 (Kit) \$32.95

GWW-30 (Wired) \$50.95

HERSHEL RADIO CO.

5249 Grand Avenue, Detroit 8, Michigan



DETROLA MODEL

Single channel transmitter with 4 tubes in circuit. Tunable 4 tube superregenerative circuit in receiver. Kit and Wired. 117VAC/6VDC, 117VAC/12VDC or 118VAC.

DETROLA NIICP

INTERNATIONAL CRYSTAL MANUFACTURING CO., INC.

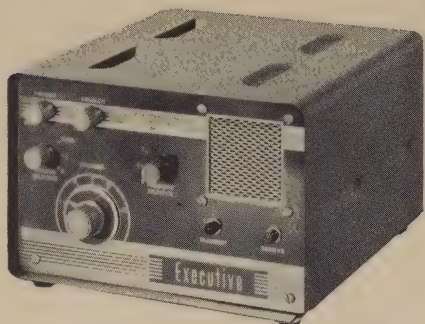
18 North Lee, Oklahoma City 2, Oklahoma



MODEL CTZ-100 "EXECUTIVE 100"

12 transmit channels coupled with a tunable and 2-fixed tuned channel receiver featuring dual-conversion with a high frequency crystal filter at the first i.f. frequency, squelch, a.n.l. Receiver has 7 tubes, transmitter, 4 with a 6CL6 in the final. Receiver has r.f. stage. Unit operates from 6/12VDC and 117VAC.

CTZ-100 EXECUTIVE 100 \$199.50



MODEL CTZ-50 "EXECUTIVE 50"

Three transmit channels and tunable receiver with additional 2 channels fixed tuned. Dual conversion receiver has 7 tubes, transmitter has 4 tubes with a 6CL6 in final. Squelch, a.n.l. Operates from 6/12VDC and 117VAC.

CTZ-50 EXECUTIVE 50 \$149.50

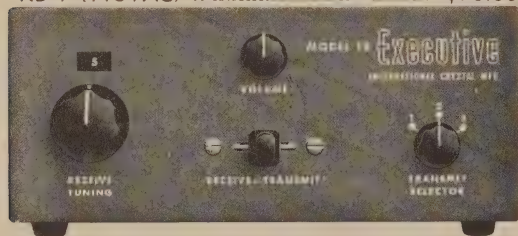


MODEL KB-1

Single channel transmitter with tunable superhet receiver with 2 i.f. stages, 1 r.f. stage. Squelch, a.n.l., 3 tube transmitter with 6AU8 in final, 7 tube receiver. Sold in semi-kit form with fully wired sub-assemblies. Available for all voltages or for 115VAC alone.

KB-1 (3-way power supply) \$98.00

KB-1 (115VAC) \$90.00



MODEL CTZ-10 "EXECUTIVE 10"

Three transmit channels with 6 tube superhet tunable receiver. 2 i.f. stages, 1 r.f. stage, a.n.l. Operates from 6VDC, 12VDC, 24VDC or 115VAC with appropriate power supply (not included). 6CL6 in final.

CTZ-10 "EXECUTIVE 10" \$59.50

"TRANSISTOR" TRANSCIEVER

Fifteen transistors and 2 diodes in this walkie-talkie type unit. Operates from rechargeable nickel-cadmium battery with built-in charger. Dual conversion superhet receiver with .5 uV. sensitivity for two channels. Squelch, a.n.l. separate controls for switching transmitting and crystal frequencies. Earphone plug.

"TRANSISTOR" \$249.50

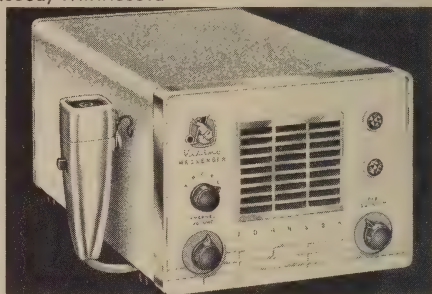
"TRANSISTOR" DESK MODEL

(Similar to portable in circuitry but in wood case and for 115 VAC operation.) \$199.50

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E. F. JOHNSON COMPANY

Waseca, Minnesota



MODEL 242 "VIKING MESSENGER"

Five transmit/receive channels with a 6 tube transmitter and 4 tube receiver featuring 1 r.f. and 1 i.f. stage. Squelch and a.n.l. 7061 tube in final.

242-126. (115VAC) \$139.45

242-127. (115VAC/6VDC) \$144.95

242-128. (115VAC/12VDC) \$144.95

MODEL 242-101-1

Transistorized handie-talkie unit with 6 transistors in the transmitter and 9 in the superhet receiver which has 1 r.f. and 1 i.f. stage. Squelch and a.n.l. Operates from self contained batteries.

242-101-1 \$109.50

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KAAR ENGINEERING CORP.

2985 Middlefield Road, Palo Alto, Calif.



MODEL TR325 "IMP"

Rugged single channel industrial unit with 10 tube receiver and 2 tube transmitter. 6AK5 in final, receiver has equalch, a.n.l. Receiver is dual-conversion. Operates from 6/12VDC and 117VAC. TR325 "IMP" \$360.00



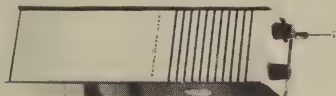
MODEL TR327 "D-PHONE"

Four transmit/receive channels with 8 tube dual-conversion receiver featuring r.f. stage, squelch, a.n.l. Transmitter has 2 tubes with 6AQ5 in final. Meter on front panel permits monitoring signal level on receive and output on transmit. A front panel control permits peaking of transmitter on each channel. Unit has plug-in relay and also metering jacks. 6/12VDC and 117VAC.

TR327 "D-PHONE" \$179.00

TR327A (same as TR327 but with AM broadcast band) \$199.00

TR327B (same as TR327 but with tunable receiver) \$199.00



TR330 "HAN-D-PHONE"

Transistorized handie-talkie with 1 transistor (RCA 3552A) transmitter and 7 transistors plus 2 diodes in superhet receiver which has 2 i.f. stages and 1 r.f. stage. Single channel unit with squelch and a.n.l. Operates from 12VDC.

TR330 HAN-D-PHONE \$129.50

KAY-TOWNES CO.

1511 Dean Ave., Rome, Georgia
No information available.

KNIGHT-KIT

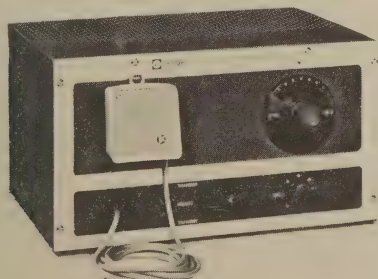
100 N. Western Avenue, Chicago 80, Illinois



MODEL C-27 CUSTOM TRANSCEIVER

Two transmit channels plus single fixed channel and tunable receiver with dual-conversion circuit. Receiver sensitivity is better than .5 uV. Press to talk for intercom-type operation. Voltage regulated drift-free oscillators, 7 dual purpose and 2 single purpose tubes, VR and rectifier. Telephone handset available but not included, also push-to-talk mike. 6AW8A in final. Operates from 105-125VAC or from optional mobile power supply. Kit only.

C-27 CUSTOM \$79.95



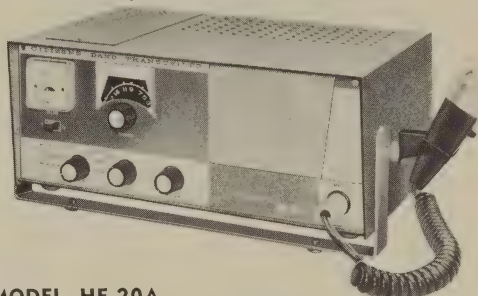
MODEL C-11 STANDARD TRANSCEIVER

Single channel transmitter and tunable super-regenerative transceiver kit. Press-to-talk switch on front panel for intercom-type operation. 6AW8 in final. 105-125 VAC or 6-12 VDC with optional mobile power supply. Kit only.

C-11 STANDARD \$39.95

LAFAYETTE RADIO

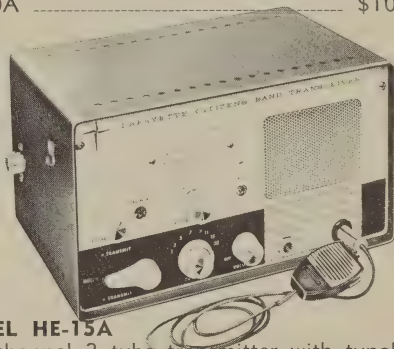
165-08 Liberty Avenue, Jamaica 33, N.Y.



MODEL HE-20A

Four channels for transmit/receive plus tunable 6 tube superhet receiver with 2 i.f. stages and 1 r.f. stage. Illuminated channel dial, a.g.c., "S" meter/RF output meter, squelch, a.n.l. 6AW8A in final of 3 tube transmitter. 115VAC/12VDC.

HE-20A \$109.50



MODEL HE-15A

Five channel 3 tube transmitter with tunable 5 tube (plus diode) superhet receiver having 1 i.f. stage and 1 r.f. stage. Jack on front panel for external meter. Adjustable noise limiter control. 6AW8A in final. 115VAC or 6-12VDC with optional power supply.

HE-15A \$59.50



HE-29

Transistorized handie-talkie unit for single channel operation. Superhet receiver with 5 transistors in transmitter and 7 in receiver. 2SA104 transistor in final. Operates from 8 penlight batteries. Earphone for privacy supplied.

HE-29 \$42.95

LAKELAND ELECTRONICS

Box 14, Warsaw, Indiana
No information available.

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LAKESHORE INDUSTRIES

2802 Wollmer Street, Manitowoc, Wisconsin



MODEL D-55

Five channels for transmit/receive. Superhet receiver with 3 r.f. stages, 1 r.f. stage, squelch, a.n.l. Transmitter has 6CL6 in final, with 4 transmitting tubes and 8 tubes in receiver circuit plus 5 silicon rectifiers. 117VAC/6VDC or 117VAC/12VDC.

D-55 \$179.50



MODEL "DUAL-D"

Two transmit channels coupled with 1 fixed tuned receive channel or tunable superhet receiver. 3 i.f. stages, 1 r.f. stage, a.n.l., squelch. Transmitter has 4 tubes, receiver has 8 tubes plus rectifier. 6CL6 in final.

DD-117 (117VAC)	\$129.95
DD-117M6 (117VAC/6VDC)	\$147.50
DD-117M12 (117VAC/12VDC)	\$147.50

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LINCOLN

(A product of Allied Radio Corp.)
100 N. Western Avenue, Chicago 80, Illinois

MODEL L-2710

Transistorized handie-talkie with 9 transistors. Single channel unit with superhet receiver. Operates from 7 penlight cells. Earphone for privacy included.

L-2710	\$42.95
L-2710 (two units)	\$79.95



MODEL L-2754

Five transmit channels and a tunable superhet receiver. Temperature compensated receiver oscillator, adjustable noise limiter. 6CX8 in final of 6 tub unit. 105-125VAC and 6/12VDC with optional power supplies.

L-2754 \$59.95

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MAGNOLIA

No information available.

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MAXWELL ELECTRONICS CORP.

229 Garvon Street, Garland, Texas



MODEL 27C-2 "RADIOCOM"

Single channel unit with 8 tube superhet receiver and 4 tube transmitter with 12AQ5 in final. Transistorized power supply. Receiver has 2 r.f. stages, 2 i.f. stages, "Dual noise limiter," squelch. Available models for all voltages.

27C-2 "RADIOCOM" \$159.50

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MIRATEL ELECTRONICS, INC.

1st Street S.E., New Brighton 12, Minnesota



MODEL CR-117

Five channels for transmit/receive. Unit has 8 tube receiver with 2 i.f. stages and 1 r.f. stage. An optional feature is a 455 kc. mechanical filter which replaces 1 i.f. transformer and restricts bandwidth to 4 kc. Receiver also has squelch and a.n.l. Panel meter indicates output tuning, signal strength and modulation percentage. 4 tube transmitter has 6CL6 in final. For 117VAC/12VDC or 117VAC/6VDC.

CR-117 \$229.00

**MONARCH ELECTRONICS
INTERNATIONAL, INC.**

7035 Laurel Canyon Blvd., N. Hollywood, Calif.



MODEL TC-900 "POCKET PHONE"

Single channel transistorized unit with 9 transistors, 1 diode, 1 varistor. Receiver is superhet with 2 μ V. sensitivity. Operates from 7 penlight batteries.

TC-900 \$64.95

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MORROW RADIO MANUFACTURING CO.

2794 Market Street, Salem, Oregon



MODEL 5W3

Three channel unit featuring 1 r.f. stage in receiver a 3 i.f. transformer. Unit has a.n.i., "noise balanced" squelch, 7 tubes in receiver and 3 transmitting tubes with 6AQ5 or 12AQ5 in the final. Switch on unit cuts power from 5 watts input to 100 mw. Operates from either 6VDC, 12VDC or 117VAC.

5W3 \$179.50

MODEL 5W1

Single channel unit with same features as 5W3.

5W1 \$169.50

MODEL 5W13

No details available, delivery to be announced.

MODEL CBFL

Single channel portable unit with 3 watts input to 3B4 final tube. Transmitter has 5 tubes, receiver is dual conversion 10 tube unit with better than 1 μ V. sensitivity. Operates from dry cells, 117VAC, mobile power supplies. Unit has squelch.

CBFL \$215.00

MODEL VP-100

Transistorized single channel handie-talkie unit with 6 transistors in transmitter and 9 in receiver, plus 1 diode and 1 thermistor. Receiver circuit is superhet with 2 i.f. stages and 1 r.f. stage. Operates from 9VDC battery. External microphone.

Two 2N1177 transistors in final.

VP-100 \$149.50

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MULTI-PRODUCTS CO.

21470 Coolidge Highway, Oak Park 37, Michigan



MODEL CD-5 "CITI-FONE"

Five channels for transmit/receive with 7 tube superhet receiver containing 2 i.f. stages, 1 r.f. stage. Transmitter has 4 tubes with 6AQ5 in final. Unit has "noise immune" squelch, a.n.i. Operates from 6VDC/115VAC or 6VDC/115VAC.

CD-5 \$134.50



MODEL CD-6 "CITI-FONE"

Customized version of CD-5.

CD-6 \$189.50

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OSBORNE ELECTRONICS CORP.

13105 S. Crenshaw, Hawthorne, Calif.



MODEL 100-S "DUO-COM"

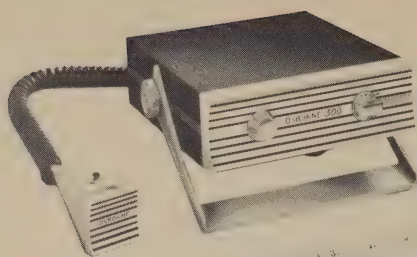
Eleven transistor handie-talkie unit with 9 transistor dual conversion superhet receiver with 3 i.f. stages and 1 r.f. stage, and 2 ceramic i.f. filters to cut down adjacent channel interference. Two transistors in transmitter with R-424 in final. Unit has squelch and is powered by 8 penlight batteries.

100-S "DUO-COM" \$119.50

MODEL 100 "DUO-COM"

Similar to Model 100-S except with 8 transistors and without squelch.

100 \$99.50



MODEL 300

Four channel fully transistorized unit with 3 watts input. Transmitter has 2 transistors in circuit with OECO 8316 in final, receiver is 7 transistor superhet with noise limiter, squelch, 2 i.f. stages, 1 r.f. stage and a ceramic ladder filter for extra selectivity. Operates from 115VAC or from 6/12/24/32VDC with optional converters.

300 \$149.50

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PEARCE-SIMPSON, INC.

2295 N.W. 14th Street, Miami 35, Florida



MODEL CBD-5

Five channel unit with 6 tube superhet receiver with 2 i.f. stages and 1 r.f. stage. Transmitter has 4 tube transmitter with 6AQ5 in final. Unit has squelch, a.n.l., and may be tuned without removing the chassis from the cabinet. Transistor power supply. For 115VAC/12VDC and 115VAC/6VDC.

CBD-5 \$179.50

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PETELY SALES CORP.

300 Park Avenue South, New York 10, N.Y.

MODEL CBT-10 "HI-DELITY"

Transistorized handie-talkie unit with 7 transistors and 1 diode. 2SA74 in final. Has 2 i.f. stages and 1 r.f. stage. Operates from batteries. Single channel.

CBT-10 PNA

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PHILMORE MANUFACTURING CO., INC.

130-01 Jamaica Avenue, Richmond Hill 18, N.Y.

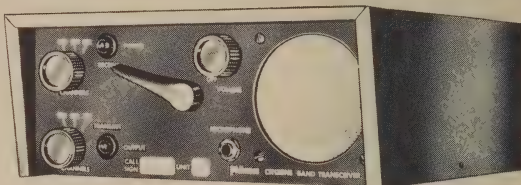
MODEL TC-90

Hand held transistorized handie-talkie unit with 7 transistor superhet receiver and 2 transistor transmitter with a 2SA70 in the final. Receiver has 2 i.f. stages, 1 r.f. stage. Operates from re-



chargeable 9VDC battery or battery eliminator. Earphone jack on top of unit.

TC-90 \$49.95



MODELS TC11 and TC612

Kit with 3 transmit/receive channels. Receiver is superregenerative with 1 r.f. stage. Unit has 5 tubes with 6AU8 in transmitters final. Front panel transmit/receive switch. Built-in TVI filter. Kit only.

TC11 (115VAC) \$39.95

TC612 (6/12VDC) \$44.49

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POLYTRONICS LAB INC.

253 Crooks Avenue, Clifton, N.J.



POLY-COMM II-G

Four channel transceiver with dual conversion superhet receiver. Receiver has 3 stages of i.f., better than .4 uV. sensitivity, squelch, noise limiter. Receiver has 11 tubes and 6 diodes with a 6EM5 in the final and a TVI filter in the output circuit. Ruggedized to withstand extremes of humidity, shock, vibration. Electronic switching. For 117VAC/6VDC or 117VAC/12VDC.

POLY-COMM II-G \$189.50

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RADIO CORPORATION OF AMERICA

Meadow Lands, Pennsylvania

MODEL CRM-P3A-5 "MARK VII"

Four channels for transmit/receive plus added feature of being tunable. Receiver is superhet with 2 i.f. stages, 1 r.f. stage and has 6 tubes, a.n.l. squelch. Transmitter has 4 tubes with 6AW8A in final. Operates from 115VAC/6VDC or 115VAC/12VDC.

CRM-P3A-5 "MARK VII" \$189.95

RADIFONE

No information available.



MODEL CBR-1A5 "PERSONAL-COM"

Nine transistor handie-talkie unit with superhet receiver having 2 i.f. stages, 6 transistors. Transmitter has 3 transistors with a 3552A in the final. Operates from 12VDC mercury battery.

CBR-1A5 \$129.95



"PERSONAL-COM 300"

Transistorized handie-talkie unit similar to the PERSONAL-COM but smaller and with an optional battery charger. A factory installed module will increase the transmitter power from 100 mw.

"PERSONAL-COM 300" PNA

RADIO SHACK CORP.

730 Commonwealth Avenue, Boston 17, Mass.



REALISTIC MODEL TRC-27

Single channel transmit/receive with superhet receiver. Receiver has squelch. 117VAC/12VDC.

TRC-27 NIICP



MODEL CBK-1

Single channel transmitter with tunable super-regenerative receiver. 117VAC only. Kit or wired. CBK-1 NIICP

RADSON ENGINEERING CORP.

Box "B," Macon, Illinois



MODELS RP-115 and RP-612

Two channels for transmit/receive with a 2 i.f. stage superhet receiver featuring a.n.l. Receiver has 5 tube circuit, transmitter has 2 tubes with 6AQ5 in final. Push-to-call tone calling circuit operates relay in buzzer and receiver.

RP-115 (105-125VAC) \$169.95

RP-612 (6/12VDC) \$170.95

RAYTHEON COMPANY

Dist. Products Div.

Unicenter, Westwood, Massachusetts



"RAYCOM" MODEL

Five channel transmitter and receiver with superhet receiver having squelch, noise limiter and 1 uV. sensitivity. Modulation is class AB-2. Snap-clamp mounting. Operates from 115VAC and 12/32VDC.

"RAYCOM" \$179.50



"RAY-TEL" MODEL

Four channel transmit/receive. Superhet receiver has squelch. Switch on front panel turns off trans-

mitter tubes while leaving receiver on for less battery drain. Unit has 8 tubes, a.n.l., tube clamps on all tubes, plated chassis. 115VAC and 12/32VDC.

"RAY-TEL" \$169.95



"RAY-ETTE SUPER"

Transistorized handie-talkie unit with single channel superhet receiver featuring squelch, earphone, r.f. amplifier, a.n.l., rechargeable battery.

"RAY-ETTE SUPER" \$99.95

"RAY-ETTE REGAL"

Similar to RAY-ETTE SUPER except has super-regenerative receiver circuitry.

"RAY-ETTE REGAL" \$79.95

REGENCY ELECTRONICS, INC.

7900 Pendleton Pike, Indianapolis, Ind.



MODEL CBM-27

Dual conversion tunable superhet receiver with 2 i.f. stages, 6 tubes. Transmitter has 4 tubes and will operate on 2 channels, or on 7 channels with adapter. 6CX8 in final. Operates from 115VAC, and/or 6/12 VDC.

CBM-27 (115VAC) \$124.95

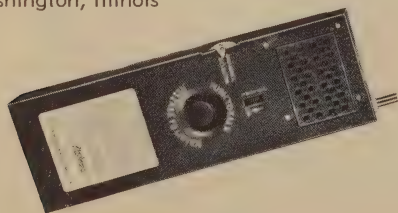
CBM-27-6 (115VAC/6VDC) \$124.95

CBM-27-12 (115VAC/12VDC) \$124.95

RME

(RADIO MANUFACTURING ENGINEERS, INC.)

Washington, Illinois



MODEL 4303

Handie-talkie transistorized portable with superhet receiver covering all channels. Unit has 7 transistors and 1 diode including 3552A in final. Operates from batteries.

4303 \$99.50

ROSS LABORATORIES, INC.

124 Lakeside Ave., Seattle, Washington



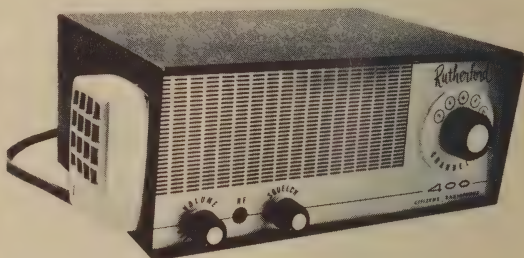
"POCKET TALKIE" MODEL

Transistorized handie-talkie unit with 5 transistors in circuit. Superregenerative receiver with r.f. stage for single channel. Crystal speaker/mike. Operates from single battery.

"POCKET TALKIE" \$69.50

RUTHERFORD ELECTRONICS CO.

8944 Lindblade Street, Culver City, California



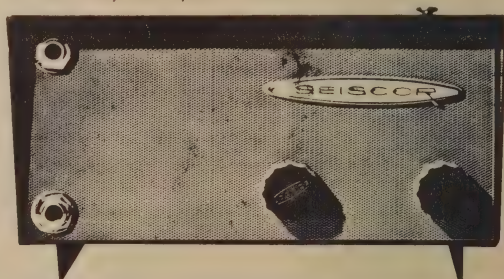
MODEL R-400

6 channel unit with 3 i.f. stage superhet receiver having 1 r.f. stage. Transmitter has 5 tubes in circuit with 6AQ5 in the final, receiver has 10 tubes in circuit with squelch and a.n.l. and 1 μ V. sensitivity. Operates from 115VAC and 6/12VDC.

R-400 \$169.50

SEISCOR

Box 1590, Tulsa, Oklahoma



MODEL SC-A "TELEPATH"

100 mw. transistorized base station. Single chan-

nel unit operates from 110VAC or from 12/32VDC. 200 mw. model also available on special order.

SC-A PNA

MODEL SC-B "TELEPATH"

Similar to SC-A except in mobile two-way radio form in weatherproof steel case.

SC-B PNA



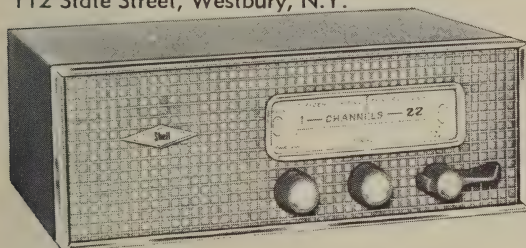
MODEL PM-A

Transistorized handie-talkie unit with single channel transmitter and receiver. Earphone jack.

PM-A PNA

SHELL ELECTRONICS MFG. CORP.

112 State Street, Westbury, N.Y.



MODEL CB-12

Single channel transmitter coupled with tunable superregenerative receiver having 1 uV. sensitivity with r.f. amplifier. Operates from 117VAC/12/VDC or 117VAC/6VDC.

CB-12 \$59.95

SONAR RADIO CORP.

3050 West 21st Street, Brooklyn 24, N.Y.

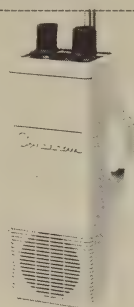


MODEL "E"

Eight crystal controlled channels for receiver and transmitter plus added feature of tunable receiver. Transmitter has Class "B" push-pull modulation with 12AQ5 in the final. Receiver has superhet circuitry with .5 uV. sensitivity, a.n.l., squelch. "S" meter available as optional accessory. Unit

has 9 tubes, 1 diode, 2 silicon rectifiers. 117VAC/6VDC or 117VAC/12VDC.

MODEL "E" \$179.50



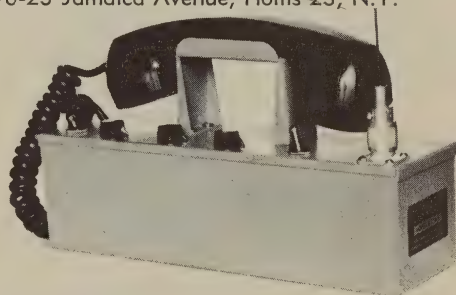
MODEL "CBP"

Transistorized handie-talkie with 8 transistors and 1 diode. Tunable receiver with 3 uV. sensitivity with superhet circuitry. Powered by energizer type battery.

MODEL CBP \$124.95

SPRINGFIELD ENTERPRISES

196-23 Jamaica Avenue, Hollis-23, N.Y.



MODEL TR-28 CHASSIS

Four transmit channels, tunable superregenerative receiver walkie-talkie unit with 100 mw. input. Electronic chassis is complete with 8 transistors and instructions for assembly with accessories. Operates from 8 flashlight batteries.

TR-28 CHASSIS \$24.98

STANDARD ACCESSORIES

(Case, antenna, battery holders, handset and cord, misc. hardware.) \$12.98

DELUXE ACCESSORIES

(All standard accessories plus new style handset, gray hammertone case, call letter label.)... \$19.98

TECRAFT SALES CORP.

P. O. Box 84, S. Hackensack, New Jersey



FALCON MARK IV

Five channel transmitter with tunable receiver, plus 1 crystal-controlled receive channel; universal power supply (117VAC, 6/12VDC); 13 tube function; dual conversion superhet receiver, a.n.l., squelch, metered panel indicates plate current. 6CL6 in final. 0.1 uV. sensitivity.

MARK IV—MODEL A
(Tunable receiver) \$169.95

MARK IV—MODEL B
(5 Trans/Rec Chans.) \$169.95

MARK IV—MODEL C
Like MODEL A but with special
a.n.l. circuit) \$189.95

MARK IV—MODEL D
(Like MODEL B but with special
a.n.l. circuit) \$189.95

TELEPHONE AND ELECTRONICS CORP.

7 East 42nd Street, New York 17, N.Y.



"TEL-RAD" MODEL

Five channels for transmit and receive with superhet receiver having 10 tube function. Squelch, a.n.l. Transmitter has 6AQ5 in final, 4 tubes. Tunable r.f. stages, 3 i.f. stages. Choice of loud-speaker or telephone handset operation.

"TEL-RAD" (117VAC and 6/12VDC) ... \$179.00

"TEL-RAD" (117VAC) \$169.00

TRANSCENDOR

Box 111
Waseca,
Minnesota



MODEL 1000

Five transmit/receive channels with superhet receiver, a.n.l., squelch. 10 tube unit with 7061 in the final Models for 115VAC, 115VAC/6VDC, 115VAC/12VDC.

1000 \$179.50

TRANSPACE INC.

12902 Foothill Blvd., San Fernando, Calif.

MODEL C-27A

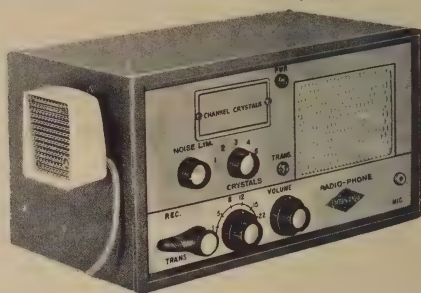
Six channels for transmit/receive with superhet receiver having 1 uV. sensitivity. 12 tube per-

formance from 8 tubes. Has squelch, a.n.l. Operates from 115VAC and 6/12VDC.

C-27A PNA

UNITED SCIENTIFIC LAB, INC.

35-15 37th Ave., Long Island City 1, N.Y.



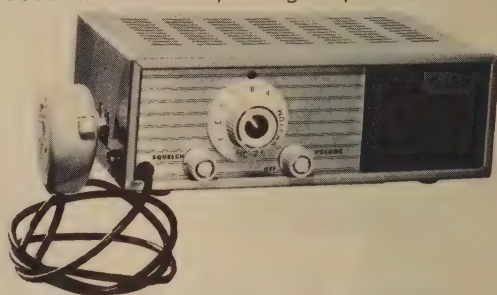
MODEL TR-800

Five channels for transmitting and a tunable superhet receiver having noise limiter, r.f. stage. For 117VAC or 6/12 VDC with power supply.

TR-800 \$79.95

UTICA COMMUNICATIONS CORP.

5055 N. Kedzie Ave., Chicago 25, Illinois



MODEL MC-27 "TOWN AND COUNTRY"

Six channels for transmit/receive with dual-conversion circuit having r.f. stage, 13 tube performance, squelch, a.n.l. Final has 6CX8 tube. For 115VAC and 6/12 VDC.

MC-27 \$189.50

VOCALINE COMPANY OF AMERICA

Old Saybrook, Connecticut



COMMAIRE MODEL ED-27M

Four channels for transmit/receive with dual-conversion superhet receiver with 2 stages of i.f. and 1 stage of r.f. Also has squelch, a.n.l. Receiver has 8 tubes, transmitter 2 with a 5763 in the final. Operates from 115VAC/6VDC or 115VAC/12VDC.

ED-27M \$189.50

ED-27 (single channel version) \$179.50



COMMAIRE MODEL PT-27

Unit has four transmit channels and 4 fixed tuned channels plus tunable across CB band and AM standard broadcast band. Sensitivity is 0.1 uV. from 18 transistor circuit. Transmitter has 2 tubes with 3V4 in final. 1 watt input. Portable unit is powered 10-15VDC. Has squelch, noise limiter. PT-27 ----- \$249.50

WEBSTER MANUFACTURING CO.

317 Roebling Road, S. San Francisco, Calif.



MODEL 4-11

Four channel unit with superhet receiver has 7 tubes with 6CX8 in the transmitter's final. Unit has squelch, noise limiter. Has 1 i.f. stage, 1 r.f. stage. Standby switch. Electronic relay elimination. For 115VAC/12VDC. 4-11 ----- \$169.50

WESTERN RADIO

Kearney, Nebraska

PORTABLE

Single channel unit with tunable superhet receiver. Operates from 110VAC. Less than 5 watt input. PORTABLE ----- \$29.95

"KAR-FONE"

Mobile version of PORTABLE unit.

"KAR-FONE" ----- \$29.95

WIGHTMAN ELECTRONIC ENGINEERING CO.

Easton, Maryland



MODEL WE-PT-1

Single channel transceiver. Transistorized handie-talkie unit with superhet receiver having 1 r.f. stage and 2 i.f. stages. Powered by 8 flashlight batteries.

WE-PT-1 ----- NIICP

General PRESENTS THE ALL NEW MODEL MC4

SIZE—4 1/4"H. x 8 1/2"W. x 10 1/2"D. WT—15 Lbs.—20 Lbs. Shp.

POWER—12V/4A., 6V/8A., 115V/50W. Self Contained. Fused for all voltages.

TRANSMITTER: 6EA8 Pentode Oscillator Uses Fund. Xtals. 6GM5 Power Amplifier—Ceramic Pi Network. 6EA8 Mike Preamplifier, 6BQ5 Modulator. 100% Modulation for Input Powers up to 15 watts. 6 International Crystal Sockets plus External socket for 22 channel operation, built in lighted Field Strength Meter.

RECEIVER: Sensitivity .5uv. min. 22 channel. Tunable plus 4 fixed Crystal Positions. Dial increments of 10kc. Selectivity 5kc. 3 IF transformers. Have "Q" of 165 each. 2 Gang variable. Tunes Oscillator and Mixer. 6B8 Cascade R.F. Amp. "Generals" Exclusive Crystal Diode Mixer. Lighted dial. Luminous numerals. 4:1 Ball bearing dial drive. Lighted "S" meter. External speaker jack. Jensen 4 watt heavy duty speaker. Series gated noise limiter. Sealed relay.

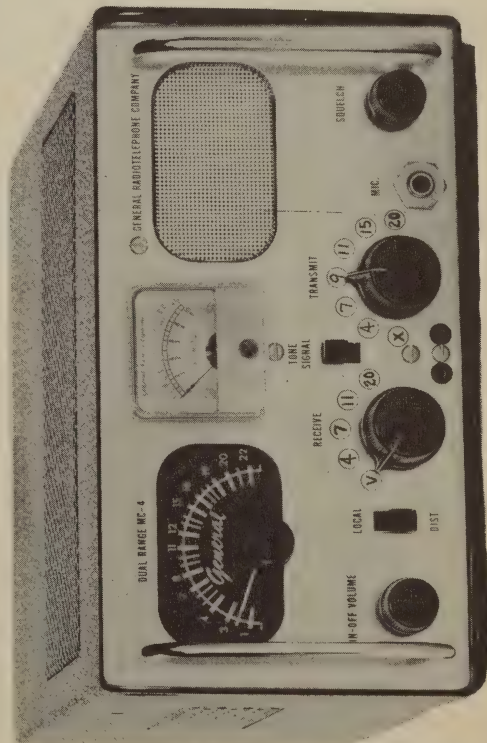
MECHANICAL: Triple plated heavy steel chassis. Gold anodized tempered aluminum panel. Moisture-tungus proof lacquer on all wiring. Baked black wrinkle cabinet.

Complete with 115V cord, crystal for one transmit channel, chrome plated ceramic microphone with push-to-talk switch and coil card. Parts and service warrantied 90 days. Net price \$199.95; crystals T or R @ \$2.95. F.O.B. Burbank. Specifications subject to change without notice.

Contact your dealer or write:

GENERAL RADIOTELEPHONE COMPANY

Dept. C8 • 2806 West Burbank Blvd. • Burbank, California, U.S.A.



*Under present rules part 19.32, the FCC does not provide for more than five (5) watts input in the citizens radio service. (26-965-27.225MC)

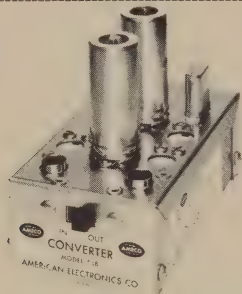
ACCESSORIES

Unit Transmitters, Receivers, Converters

AMERICAN ELECTRONICS CO. (AMECO)
178 Herricks Road, Mineola, N.Y.

MODEL CLA CONVERTER

Mobile converter for receiving 1 CB channel. 12VDC. With 12AD6 tube. 0.75 uV. sensitivity. CLA \$19.95.



MODEL CLB CONVERTER

Similar to model CLA except has more sensitivity with 12EK6 r.f. stage. 0.25 uV. sensitivity. CLB \$24.95



MODEL PH PREAMPLIFIER

Twenty db. gain when connected to antenna post of any receiver. Improves image and spurious reaction with 2 tuned circuits. PH \$13.95

J. WILBUR BABB ELECTRONICS

202 W. Seminole, McAlester, Oklahoma

MODEL TRA-11

Combination converter and transmitter. Transmitter plate modulated with 5763 in final. Converter is 2 tubes for 6/12 VDC. TRA-11 \$74.50

BAINBRIDGE RADIO

2649 Bainbridge Avenue, New York, N.Y.

MODEL PENT-2K DUAL CONVERSION UNIT

Two tubes and 2 i.f. stages and a coil in kit form ads dual conversion to HE-15 and HE-15A units. Adapters available for several other units. PENT-2K \$16.95

BROWNING LABORATORIES, INC.

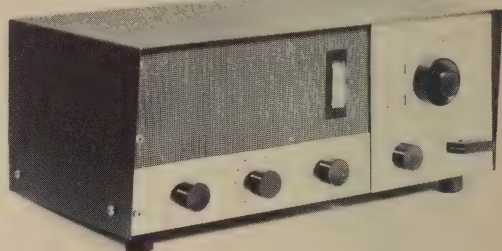
100 Union Avenue, Laconia, N.H.



MODEL S-NINE TRANSMITTER

Six transmit channels with a 7 tube circuit. 5763 tube in final. VOX voice control, speech clipper and filter. Meter in panel indicates modulation, plate voltage and current. Has crystal spotter. 115VAC.

S-NINE \$119.50



MODEL R-2700 RECEIVER

Companion to S-NINE transmitter is 10 tube superhet with 3 stages of i.f. and 2 stages of r.f. amplification with double conversion. Unit has squelch, noise limiter, transmit-receive switch, S-meter. Tunable as well as 5 fixed receive channels. 115VAC.

R-2700 \$149.00

CRYSTAL ELECTRONICS CO.

1421 E. Harper Ave., Box 585, Lenoir, N.C.

MODEL 11M

Crystal controlled converter. Hooks between antenna and broadcast receiver. Requires 120VDC at 15 ma. Kit and Wired. Two tubes.

11M6 (6VDC) NIICP

11M12 (12VDC) NIICP

11MK (6 or 12 VDC Kit) NIICP

INTERNATIONAL CRYSTAL MFG. C., INC.

18 N. Lee, Oklahoma City, Oklahoma

MOBILETTE 61 CONVERTER No. 630-112

All transistor crystal controlled converter. Installs under dash. For 6/12 VDC operation.

MOBILETTE 61 \$22.95

KUHN ELECTRONICS, INC.

20 Glenwood, Cincinnati 17, Ohio

MODEL 331-B CONVERTER

Crystal controlled. Requires no high voltage power supply. For transistor car radios.

331-B \$24.95

MODEL 315-A CONVERTER

Use with home or auto sets. Tunable.

315-A	\$13.95
315-AC (Crystal controlled)	\$18.95
315-AD (Crystal controlled for use with transistor car radios)	\$17.95

MODEL 326B CONVERTER

Crystal controlled for transistor car radios. High gain with a.n.l.

326-B	\$44.95
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MARINA COMMUNICATIONS

11527 Washington Blvd., Los Angeles, Calif.

MODEL TX-11 BUDDY TRANSMITTER

Six transmit channels in a 5 tube circuit. Operates from 115VAC. Hi gain modulation. 6CL6 final. TX-11

\$95.00

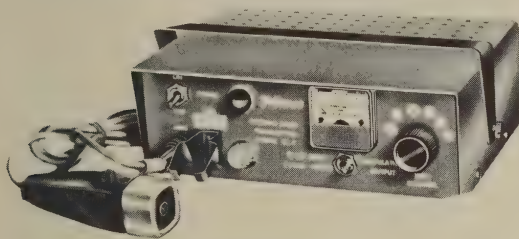
MODEL RC-11 BUDDY RECEIVER

Tunable receiver with additional 5 fixed channels. Double conversion superhet with 3 i.f. stages and 1 r.f. stage with squelch, noise limiter, S-Meter. Has 10 tubes and 2 diodes. I.f. stages are 265 kc. 115VAC.

RC-11	price not announced
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PHILMORE MFG. CO., INC.

130-01 Jamaica Ave., Richmond Hill 18, N.Y.

**MODEL CT-1 TRANSMITTER**

Three tube 6 channel transmitter with 6CX8 in the final. Has panel meter for plate power input and relative power. 115VAC or 12VDC with power supplies.

CT-1 (Kit)	\$47.50
CT-1 (Wired)	\$62.95

**MODEL CC-1 CONVERTER**

Attaches to any radio for tuning 11 meter band. Two tubes. 115VAC or 12VDC with power supplies.

CC-1 (Kit)	\$17.95
CC-1 (Wired)	\$24.95

MODEL CP POWER SUPPLY

For above units. Has T/R switch.

CPA-1 (Kit/115VAC)	\$21.75
CPA-1W (Wired/115VAC)	\$30.45

CPM-1 (Kit/12VDC)	\$26.75
CPM-1W (Wired/12VDC)	\$40.95

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ROBIN RADIO CO.

2408 Hemphill, Greenville, Texas

MODEL 107 CONVERTER

Any single CB channel by adding this unit to any auto receiver.

107	\$14.95
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VANGUARD ELECTRONIC LABS

190-48 99th Ave., Hollis 23, N.Y.

**MODEL C-327 CONVERTER**

Three transistors, crystal controlled oscillator for making standard radio into dual conversion 11 meter superhet. Does not destroy broadcast reception. Connects between receiver and antenna. Uses 9VDC battery or connects to 6/12 VDC external power source.

C-327	\$22.95
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CB ANTENNAS

Fixed, Mobile

THE ANTENNA SPECIALISTS CO.

12435 Euclid Ave., Cleveland 6, Ohio

MODEL M-1D ANTENNA

Complete mobile assembly includes chromed swivel base, chromed spring and 102" stainless steel whip.

M-1D	\$11.97
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M-1 (same as M-1D except has aluminum base and cadmium plated spring)	\$ 8.97
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MODEL MB24 ANTENNA

Bumper mounting assembly consists of double chain bumper mount with cable terminals, cadmium plated spring, stainless steel 102" whip, 20' RG-58/U cable and connector on one end, solder lugs on the other and whip hold-down clip.

MB-24	\$20.33
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M-24 (same as MB-24 except single chain bumper mounting)	\$17.60
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MODEL M-33 ANTENNA

Complete kit for rear deck or side mounting. Coaxial base, spring, 102" whip, cable, gutter clip, 20' of RG-58/U cable and connectors.

M-33	PNA
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MODEL M-52 ANTENNA

Cowl mounted antenna with continuously loaded

48" fiberglass whip. 5' RG-58/U and connectors.
M-52 \$9.95
M-53 (similar to M-52 but without mounting base) \$7.20

MODEL M-58 ANTENNA

48" continuously loaded fiberglass whip. Cadmium plated adjustable brackets permits mounting on vehicle trunks.
M-58 \$11.16

MODEL M-49 ANTENNA

Center loaded cowl mount antenna. Sealed loading coil, low VSWR. Extends to 60', retracts to 43." With 5' of RG-58/U with connectors.
M-49 \$9.96
M-59 (similar to M-49 but with assembly for mounting on trunk lid) \$9.96

MODEL ASP-189 ANTENNA

Front cowl mounting antenna fits same hole as auto antenna. Vinyl covered loading coil. Whip is 40." Has 6' of RG-58/U and plugs.
ASP-189 \$12.48
ASP-185 (similar but with clamp for mounting on rain gutter) \$12.48
ASP-63 (similar but with coax plug on base) \$777

MODEL ASP-239 ANTENNA

Portable antenna with tunable base coil and coax connector. 43" stainless steel whip.
ASP-239 \$16.40

MODEL M-67 ANTENNA

Base loaded mobile roof-top antenna. 44" high tapered steel whip. Solderless connection for lead. With 12' RG-58/U and connector.
M-67 \$15.68

MODEL M-20 ANTENNA

Window mounting antenna for apartment buildings. 9' jointed aluminum radiator.
M-20 \$7.50

MODEL M-36 ANTENNA

One-half wave coaxial sleeve base station antenna. Aluminum radiator.
M-36 \$19.95
MA-36 (similar except with jointed skirt) \$21.00

MODEL M-37 ANTENNA

Three element vertical beam for base station. 18' high on 11' boom. Seven db. gain.
M-37 \$45.00

MODEL MC-27 ANTENNA

Base station ground plane. Aluminum 108" heat treated radials (jointed).
MC-27 \$15.95
MD-27 (MC-27 w. 50' RG-58/U) \$19.50
M-38 (Isolating skirt for ground planes) \$11.37
M-27 (ground plane with stainless steel radials) \$29.85

MODEL M-71 ANTENNA

Marine model including support tube, mounting and transmission line. Flex. steel 42" whip. Overall height 107" can be reduced to 71."
M-71 \$34.05

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BROWING LABORATORIES, INC.

100 Union Avenue, Laconia, New Hampshire

BASE STATION BEAM

Six element wide spaced vertical beam with 2-3 element sections on a one-half wave horizontal boom. 11 db. forward gain.
BEAM \$97.50

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THE CITIZENS BANDERS

P. O. Box 698, Canaan, Connecticut

MOBILE ANTENNA

40" long for use on present mount or spring.
MOBILE NIICP

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CONTINENTAL ELECTRONICS & SOUND CO. (CESCO)

6151 Dayton Liberty Road, Dayton 18, Ohio

DUO-POLE MODEL

Constructed of aluminum with grounded one-quarter wave fold back lightning safety factor. Vertical radiator with 4 horizontal radials.
DUO-POLE \$29.97

BEAM ANTENNA MODELS

Extruded aluminum tubing.
3 Element (7 db. gain) \$29.95
4 Element (8 db. gain) \$39.95
5 Element (9 db. gain) \$49.95

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COLUMBIA PRODUCTS CO.

R.F.D. 3, Columbia, S.C.

MODEL 72-0 ANTENNA

A two-section shortened coaxial antenna for base station and marine use. White fiberglass with chrome plated brass fittings. Length is 10'6".
72-0 \$39.95

MODEL 10-3 ANTENNA

White fiberglass whip. Resonant length is 96".
10-3 \$6.95

MODEL 74-0 ANTENNA

4' loaded fiberglass whip for attaching to rain gutter of car. Cadmium plated steel mounting hardware, 9' RG-58/U and plug.
74-0 \$14.40

MODEL 73-0

Gray fiberglass distributed loaded antenna with space wound coil inbedded in fiberglass laminate. 48" long.
73-0 \$11.25
62-0 (similar to 73-0 but white) \$15.90

MODEL 61-0 ANTENNA

Fiberglass ground plane with cadmium plated steel hardware.
62-0 \$39.95

MODEL 146 ANTENNA "SLIM GEM"

Loaded whip. Air core space wound base coil molded with fiberglass laminate. Tapered 48" high. Brass, chrome plated base ferule.
146 \$8.95

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CRATER LAKE ANTENNAS

P. O. Box 823, Medford, Oregon

MYTIE MOBILE ANTENNA

28" stainless steel radiator with 3 1/8" matching transformer at the base encased in resin. Base

screws into antenna mount. 12 coax incl.
MYTIE MOBILE \$17.95
DELUXE MYTIE MOBILE (similar to MYTIE MOBILE except different styling with base matched to color of your car) \$19.95

MARINE MODEL ANTENNA

Ground plane effect with MYTIE MOBILE cart-ridge and radials. 12 ft. coax incl.
MARINE MODEL \$26.96

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CUBEX COMPANY

3322 Tonia Avenue, Altadena, California

MODEL CBQ CUBICAL QUAD ANTENNA

Quad for directional base station use. Up to 10 db. gain, low angle of radiation. 110" high. Fed with 52 or 72 ohm coax.

CBQ (Bamboo radial arms) \$39.50
CBQ-FG (Fiberglass radial arms) \$64.50

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CUSH CRAFT

621 Hayward Street, Manchester, New Hampshire

MODEL CG-11 ANTENNA

Economy ground plane with wire radials.

CG-11 \$20.85
CG-11C (CG-11 with special adapter plate to which radials are attached) \$25.00

MODEL CSG-11 ANTENNA

Self-supporting ground plane of all aluminum construction. Heat treated solid aluminum rod.

CSG-11 \$26.75

MODEL CGP-11D ANTENNA

"Commercial quality" ground plane of all machined aluminum construction.

CGP-11D \$41.68

MODEL CB-11

Three element beam with Gamma match loading. 8 db. gain. Aluminum tubing.

CB-11 \$47.50
CB-11 DUAL (2 CB-11 beams for 11.5 db. gain) \$149.50

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G-C ELECTRONICS

Rockford, Illinois

MODEL 29-740 ANTENNA

Ground plane kit complete with mast and coax. Aluminum.

29-740 \$25.50
29-742 (w/o mast and coax) PNA
29-730 (wire radials w. mast and coax) \$23.85
29-732 (wire radials w/o mast and coax) PNA

MODEL 29-700 ANTENNA

102" stainless steel whip.

29-700 \$6.90
29-702 (100' whip) \$6.90

MODEL 29-710 TEL-COIL WHIP

48" tapered fiberglass "loaded" whip.

29-710 \$7.20

MODEL 29-706 ANTENNA

101" fiberglass tapered whip.

29-706 \$8.40

MODEL 29-712 TEL-E-SCOPE WHIP

Chrome plated, 101" extended, 32" collapsed.

29-712 \$4.80

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GENERAL ELECTROMAGNETICS CORPORATION

11719 E. Washington Blvd., Whittier, Calif.

OMNI-SLOT ANTENNA

Two inches high with efficiency equal to 108" whip — same gain. Omni directional horizontal pattern for car top.

OMNI-SLOT under development

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GOTHAM

1805 Purdy Avenue, Miami Beach, Florida

V40 MODEL ANTENNA

Vertical 23 foot antenna. No guying. Base loaded. For base station.

V40 \$14.95

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GYRO ELECTRONICS CO.

36 Walker Street, New York 13, N.Y.

MODEL DGP-27 ANTENNA

Ground plane with isolating skirt to lower radiation angle. Consists of a vertical radiator, 4 drooping ground planes at the base of the radiator and an additional set of 90° ground planes one-half wave below the upper set.

DGP-27 \$16.95
SGP-27 (w/o isolating skirt) \$11.95

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H & L ELECTRONICS

P. O. Box 125, Medford, Oregon

MODEL LW-1 ANTENNA

48" mobile whip (base loaded) with 18 feet of coax and all mounting hardware. Tapped coil matching.

LW-1 \$10.95

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HY-GAIN ANTENNA PRODUCTS

1135 N. 22nd, Lincoln, Nebraska

MODEL CW ANTENNA

44" telescoping whip w. loading coil.

CW \$5.97

MODEL CD ANTENNA

Telescoping rabbit ear dipole.

CD \$13.17

MODEL TLW ANTENNA

Top loaded mobile whip.

TLW \$5.37
TLW-T (Telescoping) \$5.97
TLW-M (w. body mount and coax fitting) \$7.17

MODEL CMR ANTENNA

Base loaded rooftop whip w. mount.

CMR \$8.97

MODEL W-102 ANTENNA

102" stainless steel whip.

W-102 \$4.35
FW-102 (Fiberglass) \$8.37

MODEL SGP ANTENNA

Aluminum ground plane.

SGP \$16.17

GP-1 (Heavy Duty) \$26.25
 CLR (Colinear GP with 3.4 db. gain, 3/4 wave-length) \$29.97

MODEL 113-B ANTENNA

Nine db. gain with aluminum 3 element beam.
 16 1/2 ft. elements. Vert. or Horiz. mounting.
 113-B \$31.50

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INTERNATIONAL COMMUNICATIONS CO.

26330 S. Western, Lomita, California

STINGER ANTENNA

Mobile whip is 32" long for mounting on roof, fender or trunk. Transformer coupled. Polished stainless steel. With all plugs and connectors necessary.
 STINGER \$17.95

STINGER GROUND PLANE ANTENNA

Sixteenth wavelength ground plane with engineering similar to Mobile STINGER. Available about mid-August.
 STINGER GROUND PLANE price not announced

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HERB KRECKMAN CO.

Cresco, Pennsylvania

KRECO MODEL CO-CBA ANTENNA

All aluminum coaxial sleeve antenna.
 CO-CBA \$41.25

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MARINA COMMUNICATIONS

11527 Washington Blvd., Los Angeles, Calif.

MODEL GB-11 GIZMOTCHY ANTENNA

Beam antenna with both vertical and horizontal polarization. 8 db. gain. Gamma match loaded. Made of aluminum. 9 elements.
 GB-11 \$55.95
 SWB-4 (GB-11 selector box) \$ 7.50
 GBV-11 (Vert. only Gizmotchy) \$44.95

MODEL GP-11 BUDDY ANTENNA

Drooping groundplane made from aluminum.
 GP-11 \$19.95

MODEL BW-11 BUDDY WHIP ANTENNA

"Ten db. gain over bumper mounted antennas" claimed. Lowers from driver's seat. Fiberglass construction. 96" long. Mounts on rain gutter.
 BW-11 (Black) \$19.95
 BW-11 (Colored) \$24.95

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MARK MOBILE, INC.

5441 W. Fargo Ave., Skokie, Illinois

MODEL CBB-1 "BEACON" ANTENNA

One-half wave radiator. No radials or skirts. Special one-quarter wave matcher for low SWR.
 CBB-1 \$19.95

MODEL HW HELIWHIP ANTENNAS

Continuously loaded fiberglass whips.
 HW-11-4 (500 kc. bandwidth, 2:1 SWR) \$9.95
 HW-11-5 (750 kc. bandwidth, 2:1 SWR) \$9.95
 HW-11-6 (1 mc. bandwidth, 2:1 SWR) \$10.95
 HW-11-259 (HW-11-4 with UHF plug on bottom) \$9.95
 HW-11-S4 (Light duty model HW-11) \$7.20

HW-11-S3 (Light duty model 400 kc. bandwidth, 2:1 SWR) \$7.20
 HW-11-S18 (Light duty model 350 kc. bandwidth, 2:1 SWR) \$7.20
 HW-11-6M (Marine model, no ground plate required) \$22.95

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MASTER MOBILE MOUNTS, INC.

1306 Bond Street, Los Angeles, California

MODEL 100 ANTENNA

Stainless steel whips. Threaded tip.
 100-96S (96") \$5.20
 100-103S (103") \$6.95

MODEL 106 ANTENNA

Stainless steel whips. Plain tip.
 106-96S (96") \$4.50
 106-103S (103") \$6.45

MODEL FG ANTENNA

Fiberglass whip.
 FG-96 (96") \$5.25
 FG-103 (103") \$6.95

MODEL CG-110

Clamp-on for car's rain gutter. Base loaded.
 CG-110 \$10.30

MODEL SM-700-11 SKYMASTER ANTENNA

Coaxial sleeve type made of aluminum.
 SM-700-11 \$17.95

MODEL MM-811 MAGIC WAND ANTENNA

Tapered fiberglass whip top loaded.
 MM-811 (60") \$8.95
 MM-811-35 (35") \$8.95
 MM-811-45 (45") \$8.95

MODEL SR-600-11 ANTENNA

Monopole ground plane with folded radiating element.
 SR-600-11 \$24.50

MODEL SR-500-11 ANTENNA

Three element beam for 8 db. gain.
 SR-500-11 \$36.00

MODEL GP-27-11 ANTENNA

Aluminum radial ground plane with heavy copper wire radials.
 SR-500-11 \$34.50

MODELS SB-27 and 8B-27 ANTENNAS

For cowl mounting. Base loaded 40" whip.
 SB-27 and 8B27 \$12.95

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MOSLEY ELECTRONICS, INC.

4610 N. Lindberg Blvd., Bridgeton, Missouri

MODEL A-311 ANTENNA

Three element beam. 9.3 db. gain.
 A-311 \$37.50

MODEL V-27-GP ANTENNA

Ground plane.
 V-27-GP \$34.95

MODEL LC-100 TELESCOPIC ANTENNA

Chrome plated 100' whip telescopes down to 39".
 LC-100 \$8.50

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OREGON ELECTRONIC MFG. CO.

2105 S.E. 6th Avenue, Portland, Oregon

MODEL S-9 ANTENNA

Adjustable to exact frequency. Mounting bracket for trunk turret, station wagons, no holes visible. In 4 colors.

S-9 (List) \$24.95

"AQUATENNA" ANTENNA

Marine CB antenna. No groundplate needed.

"AQUATENNA" not yet announced

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SPACE RAIDER ANTENNAS

1076 E. Walnut Street, Pasadena, Calif.

MODEL GP-27-1 ANTENNA

Ground plane antenna.

GP-27-1 \$24.95

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TELREX LABORATORIES

Asbury Park, New Jersey

MODEL 11M-309 ANTENNA

Three element beam with 9 db. gain.

11M-309 \$31.50

MODEL 11M-206B ANTENNA

Two element beam with 5 db. gain.

11M-206B \$19.95

MODEL 11M-05 "MINI-BOWTIE" ANTENNA

Looks like TV antenna for apartment house installations.

11M-05 \$7.50

MODEL 11M-254 "MINI BEAM" ANTENNA

Coil loaded beam looks like TV antenna for apartment houses. 4.0 db. gain.

11M-254 \$16.00

MODEL CO-11M "BEAMED POWER" ANTENNA

Coaxial sleeve aluminum antenna.

CO-11M \$19.95

MODEL CGP-1011S ANTENNA

Conical ground plane, aluminum.

CGP-1011S \$19.95

CGP-1011M (Customized) \$29.95

MODEL 11M-DP ANTENNA

Balun-fed dipole.

11M-DP \$19.95

MODEL 11M-OD4 ANTENNA

Vertically polarized omni-directional 4 element antenna. 4 db. gain.

11M-OD4 \$95.00

MODEL 11M-518 ANTENNA

Deluxe 5 element beam. Horizontally polarized. 11 db. gain.

11M-518 \$160.00

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UNITED STATES FIBERGLASS CO.

4001 N.W. 24th Street, Miami 42, Florida

ANTENNA

Fiberglass construction for mobile or ground plane mounting. Colors available.

ANTENNA PNA

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VANTENNA PRODUCTS

Box 172, Dover, New Jersey

MODEL VT-11 ANTENNA

Ruggedized ground plane. Aluminum. Drooping elements.

VT-11 \$21.95

WEBSTER MANUFACTURING CO.

317 Roebling Road, S. San Francisco, California

MODEL CBF "49'er" ANTENNA

49" top loaded fiberglass whip. Can be adjusted to peak on 1 channel.

CBF \$14.50

MODEL CBS-103 ANTENNA

103" stainless steel whip will not work-harden or take permanent bends. Corona ball at top.

CBS-103 \$8.35

MODEL CBF-96 ANTENNA

Marine or mobile one-quarter wave whip with maximum corrosion resistance. Covered with fiberglass. 96" long.

CBF \$7.85

"MARINE CITIZENS" MODEL

"Semi-sleeve" type vertical dipole. Fiberglass. 18' long overall.

"MARINE-CITIZENS" \$64.50

MODEL "D" INSULATED BASE MOUNT

For mounting antennas on auto's bumper pan or rear deck. Accepts coax plugs directly.

"MODEL D" \$7.40

MODEL VC-2 ANTENNA

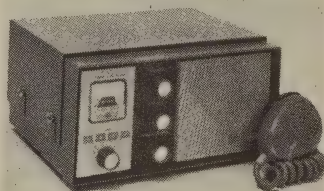
Coaxial sleeve base station antenna.

VC-2 \$56.50

MODEL "Q-TOP" ANTENNA

87" center loaded fiberglass mobile whip.

"Q-TOP" \$24.75

YOUR BEST CITIZENS BAND BUY!

NEW

**KAAR
TR327
Radiotelescope
the
Deluxe
"D" Phone**

Once again, Kaar's quarter century of progress in 2-way radio communications offers you MORE!

MORE PRACTICAL, USABLE FEATURES

New, Universal Power Supply... New, Illuminated Signal Level Meter... New, Sealed Relay... New, Snap-In, Snap-Out Mounting... 4 Crystal-Controlled Channels... Front Panel Power Output Peak Control... 5-Watt Input... Highly Effective Noise Limiter... Positive Squelch... Lots of Audio... Big 4½" Speaker.

PLUS...TWO TREMENDOUSLY IMPORTANT OPTIONAL FEATURES

Tunable Citizens Band... flexibility and convenience you've never before enjoyed on Citizens Band.

Tunable Standard Broadcast Band... for music, news, and entertainment wherever you go. **179⁰⁰**

Always MORE for YOU from KAAR!

(BASIC MODEL)

For complete information on the new, KAAR TR327 send coupon to:

KAAR Engineering Corp.
2987 Middlefield Road, Palo Alto, California

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ADDRESS _____

CITY _____ STATE _____

CB CRYSTALS

All Makes, Types

AMERICAN CRYSTAL CO.

P. O. Box 2366, Kansas City 42, Missouri
Crystals at .0025% tolerance \$3.00

C-W CRYSTALS

Box 2065, El Monte, California

MODEL HC-65F CRYSTAL

Miniature crystals in HC-6/u holders. Fundamental type in 13-14 mc. range for multiplying by 2 to the receiver or transmitter channel. 0.050" dia. pins.
HC-65F \$3.45

MODEL HC-65-O CRYSTAL

Similar to HC-65F but at overtone freq.
HC-65-O \$2.95

MODEL X-3 (FT-243) CRYSTAL

.093" pins for all CB frequencies and multipliers.
X-3 \$2.50

GENERAL CRYSTAL COMPANY, INC.

372 Wilmot Avenue, Burlington, Wisconsin

CRYSTALS

For transmit and receive sections of transceivers of all manufacturers.

CRYSTAL \$2.95

GENERAL RADIOTELEPHONE CO.

2806 W. Burbank Blvd., Burbank, California

CRYSTALS

For all makes and models. Prices vary.

HUNT CORPORATION

Carlisle, Pennsylvania

HC-6 crystals for all makes and models of CB equipment. Prices vary.

INTERNATIONAL CRYSTAL MFG. CO.

18 N. Lee, Oklahoma City, Oklahoma

CRYSTALS

For all makes and models of CB units. Prices vary.
No. 900 (crystals for trans/rec for all EXECUTIVE and KB-1 units) \$4.75

JAMES KNIGHTS CO.

Sandwich, Illinois

CRYSTALS

Crystals for all makes and models of CB equipment. \$2.00 and \$2.95 depending on particular crystal needed.

MICHIGAN CRYSTAL CO., INC.

Box 413-B, Lansing, Michigan

CRYSTALS

Guaranteed .005% tolerance. For all makes and models of transceivers.

CRYSTALS \$1.75

PETERSEN RADIO CO., INC.

2800 W. Broadway, Council Bluffs, Iowa

TYPE Z-9R CRYSTALS

Calibrated to .005% for all makes and models of CB equipment. Transmit and receive.

Z-9R \$2.95

TEXAS CRYSTALS

1000 Crystal Drive, Ft. Myers, Florida

CRYSTALS

Third overtone and all other crystals for every make and model of CB equipment.

CRYSTALS \$2.95

U.S. CRYSTALS, INC.

1342 S. La Brea Ave., Los Angeles 19, Calif.

CRYSTALS

Third overtone. .005% tolerance. Any unit.

CRYSTAL \$3.75

WRIGHT ELECTRONICS

2537 Grand Avenue, Kansas City 8, Missouri

CRYSTALS

Seventy-one different types of crystals, one for every CB on the market. Prices vary.



(add 5c per crystal for postage and handling)

CITIZEN BAND CLASS "D" CRYSTALS

3rd Overtone: Hermetically Sealed .005% tolerance—Meet F C C requirements, 1/2" pin spacing—.050 pin diameters. (.093 pins available, add 15c.)
ALL 22 FREQUENCIES IN STOCK! \$2.95 EACH

The following Class "D" Citizen Band frequencies in stock (frequencies listed in megacycles): 26.965, 26.975, 26.985, 27.005, 27.015, 27.025, 27.035, 27.055, 27.065, 27.075, 27.085, 27.105, 27.115, 27.125, 27.135, 27.155, 27.165, 27.175, 27.185, 27.205, 27.215, 27.225.

Matched crystal sets for Globe, Gonset, Citi-Fone and Hallicrafters Units . . . \$5.90 per set. Specify equipment make.

RADIO CONTROL CRYSTALS in HCG/U HOLDERS—SIX FREQUENCIES

In stock for immediate delivery (frequencies listed in megacycles): tolerance .005%, 1/2" pin spacing, .050 pin diameter. (.093 pins available, add 15c per crystal.) Specify frequency.
26.995, 27.045, 27.095, 27.145, 27.195, 27.255 \$2.95 EACH
(add 5c per crystal for postage and handling)

ASK YOUR PARTS DEALER FOR TEXAS CRYSTALS

See big red display . . . if he doesn't stock them, send us his name and order direct from factory.

Send for FREE CRYSTAL CATALOG #860 WITH OSCILLATOR CIRCUITS

Now! Engineering samples and small quantities for prototypes now made either at Chicago or at Ft. Myers plant. 24 hour service!
CHICAGO PHONE GLadstone 3-3555

All orders Shipped 1st Class Mail. Rush order to:

TEXAS CRYSTALS

DEPT. H-1, 1000 CRYSTAL DRIVE, FORT MYERS, FLORIDA

For fastest possible service, Phone WE 6-2100

CB METERS

CONTINENTAL ELECTRONICS & SOUND CO. (CESCO)

6151 Dayton Liberty Road, Dayton 18, Ohio

MODEL CB-52 TRANSICHECK METER

Checks transmitter power output and antenna efficiency. For 50 ohm coax.

CB-52-S (Auto spade connector) \$18.95

CB-52-C (Coaxial connector) \$19.95

MODEL CM REFLECTOMETER

Plugs in transmission line to measure SWR on line.

CM-52 (52 ohm lines) \$29.95

CM-75 (75 ohm lines) \$29.95

CM-52-2 (dual chassis unit for forward and reflected power indication on 52 ohm lines) \$47.90

CM-75-2 (75 ohm version) \$47.90

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CROWN ELEC. PRODS. CO.

P. O. Box 171, Orange, N.J.

MODEL TS MONITOR METER

Reads approximate power output across 50-ohm dummy load.

TS \$16.95

LS (similar but may be left in line) \$16.95

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GENERAL RADIOTELEPHONE CO.

2806 W. Burbank Blvd., Burbank, California

MODEL 615 TRANSMITTER ANALYZER

Single precision instrument that measures true power, SWR, relative field strength. For 52 ohm load. Silver plated connectors, unit may be left in line. Gold anodized aluminum panel. Weighted for safety.

615 \$39.95

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GLOBE ELECTRONICS

Rockford, Illinois

MODEL TM-1 TENNA-METER

Relative power output indicator. 52 ohms. May be left in line.

TM-1 \$15.95

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H & L ELECTRONICS

P. O. Box 125, Medford, Oregon

MODEL SWR-1

In-line watt meter. Reads directly in watts and also tells losses in the antenna and transmission system due to mismatch.

SWR-1 \$19.95

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HEATH COMPANY

Benton Harbor, Michigan

MODEL AM-2 RELECTED POWER METER

Checks match of antenna to transmission line by measuring percentage of forward and reflected power or SWR. For 50 or 72 ohm coax. Kit.

AM-2 \$15.95

MODEL PM-2 POWER METER

Field strength meter mounts on dashboard or other

INTRODUCING

"Q-TOP"



*Webster's new
high-performance
Citizen's Band Antenna*

Now available ...

"Q-TOP" ... 27 megacycle Citizen's Band version of the high quality WEB-WIP top-loaded antenna used so effectively in thousands of commercial mobile installations throughout the world.

"Q-TOP" gets the most from any Citizen's Band unit! Coil is high-Q type, located near top of antenna column well away from car body. Coil is completely sealed, "Q" cannot deteriorate due to moisture. Top whip is precisely the correct length to minimize coil turns and copper losses for further increase in "Q".

HIGHLIGHTS ...

- Weather resistant epoxy sealed coil, with strong, lightweight fiberglass covered top whip ...
- Overall length: 87" ...
- Operates into conventional 52 ohm coax (RG8/U, RG58/U) with low standing wave ratio ...
- Also excellent for fixed station use ...

Webster
MANUFACTURING

317 Roebeling Road, CB-H
South San Francisco, Calif.

Gentlemen: Please rush details on your new
"Q-TOP" CITIZEN'S BAND ANTENNA.

Name _____

Address _____

City _____ Zone _____ State _____

metal surfaces. No external powers required. Kit.
PM-2 \$12.95

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INTERNATIONAL COMMUNICATIONS CO.
26330 S. Western, Lomita, California

Company will shortly announce new line of units
providing services not currently available in field.

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INTERNATIONAL CRYSTAL MFG. CO.
18 N. Lee, Oklahoma City, Oklahoma

MODEL C-12M FREQUENCY METER

Portable secondary freq., standard. For .0025 %
accuracy. Each crystal has its own trimmer capaci-
tor for adjusting to zero freq. Also AM percentage
modulation checker. Without crystals.

C-12M \$235.00
FX-1 Crystal (for each channel) \$ 5.00

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LAFAYETTE RADIO

165-08 Liberty Ave., Jamaica 33, N.Y.

MODEL TM-59 S-METER

Signal strength meter with sensitivity and zero
adjust controls.

TM-59 \$7.95

MODEL TM-14 FIELD STRENGTH METER

Continuously indicates transmitter output. Re-
quires no batteries or transmitter connection.

TM-14 \$6.95

MODEL TM-16 FIELD STRENGTH METER

Professional type transistorized meter. Earphone
jack to monitor audio. Can be used remote from
antenna.

TM-16 \$14.95

MODEL TM-15 WAVE-METER

Sensitive field strength meter and frequency
checker. No power needed.

TM-15 \$8.95

**MODEL HE-28 RF WATT METER AND
SWR BRIDGE**

Measures watts plus or minus 5 % and SWR.

HE-28 \$37.50

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LAMPKIN LABORATORIES, INC.

Bradenton, Florida

MODEL 105-B MICROMETER FREQ. METER

Accuracy of 0.0025 %. Portable.

105-B \$260.00

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**MONARCH ELECTRONICS
INTERNATIONAL, INC.**

7035 Laurel Canyon Blvd., N. Hollywood, Calif.

MODEL FSI-1 FIELD STRENGTH METER

No battery or other power source required for
checking antenna efficiency, load matching, etc.
Earphone jack.

FSI-1 \$7.75

MODEL FSI-2 FIELD STRENGTH METER

Bandswitching model field strength meter.

FSI-2 \$9.95

MORROW RADIO MFG. CO.

2794 Market Street, Salem, Oregon

MODEL TS-1 TEST SET

Designed for tuning and adjusting the Morrow
5W3 transmitter.

TS-1 \$99.95

MODEL TS-2 FREQUENCY METER

Checks frequency, alignment and sensitivity.
Transistorized battery powered unit.

TS-2 \$335.00

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PENN ELECTRONICS

26-28 E. Main Street, Plymouth, Pennsylvania

MODEL CB-60 FIELD STRENGTH METER

Hand size unit which checks relative power, modu-
lation and antenna pattern.

CB-60 PNA
CB-61 (Transistorized) \$9.95

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PERFECTION ELECTRONICS INC.

73-03 Grand Avenue, Maspeth 78, N.Y.

MODEL CF-5 MONITOR-METER

Reads per cent of modulation, permits visual and
aural check of signal, Remains in line at all times.

CF-5 \$24.95

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PHILMORE MFG. CO., INC.

130-01 Jamaica Avenue, Richmond Hill 18, N.Y.

MODEL FS-1 FIELD STRENGTH METER

Meter reads relative field strength from 1 to 100
feet. If placed in transmission line it reads watts
output for 52 or 75 ohm loads.

FS-19 (Kit) \$19.50
FS-1W (Wired) \$26.25

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RADIO CORPORATION OF AMERICA

Telecommunication Center, Meadow Lands, Pa.

CB TEST SET (HI-17615) "SELECT-O-METER"

Combination crystal checker, r.f. signal checker,
field strength meter and output power indicator.
Has 2 transistors, powered by batteries.

SELECT-O-METER \$37.95

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RADIO SHACK

730 Commonwealth Ave., Boston 17, Mass.

MODEL H94LX556 FIELD STRENGTH METER

Miniature meter has magnetic base for dashboard
mounting. With earphone jack.

H94LX556 \$6.95

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RUTHERFORD ELECTRONICS CO.

8944 Lindblade Street, Culver City, California

MODEL M-100 POWER METER

Shows relative r.f. power. Connects directly to CB
antenna. For 50 ohm load.

M-100 \$18.38

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SECO ELECTRONICS INC.

5015 Penn Ave, South, Minneapolis 19, Minn.

MODEL 500 TEST SET

Combination crystal checker, r.f. signal and field
strength meter. Supplies low power unmodulated

signal for adjusting squelch or tone modulated for peaking. With 15' cable.

500 \$29.95

MODEL 510 TRANSMITTER TESTER

Large 3" meter shows percentage of modulation, r.f. output in watts. Can be used for 100 mw. units too. Measures losses in transmission lines.

510 \$46.95

MODEL 520 ANTENNA TESTER

In-line antenna efficiency tester and r.f. power meter. Shows forward and reflected power. SWR from 1:1 to 8:1.

520 \$42.95

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SWECO

P. O. Box 226, Bakersfield, California

MODEL S-127 POWER OUTPUT METER

Watt meter for direct reading 0 to 5 watts. Absorption type which acts as a dummy load allowing you to make transmitter adjustments under simulated operating conditions.

S-127 \$18.75

STATION -- OPERATOR ACCESSORIES

AMERICAN ELECTRONICS CO. (AMECO)

178 Herricks Road, Mineola, N.Y.

MODEL SNL SQUELCH AND A.N.L.

Provides full squelch and a.n.l. to any receiver. 6VDC or 12 VDC. Two tubes.

SNL \$17.75

MODEL ANL NOISE LIMITER

Similar to SNL except without squelch.

ANL \$ 7.95

MODEL LN-2 LOW PASS FILTER

Constant K circuit for eliminating TVI from CB rig. For 52 to 72 ohm coax.

LN2 \$ 3.75

MODEL HP-45 HIGH PASS FILTER

Placed on TV receiver to eliminate CB/TVI.

HP-45 \$.95

MODEL HPX-45 HIGH PASS FILTER

Two section high pass filter with 40 db. and more attenuation at 27 mc. For 300 ohm twin lead. Hooks on TV set.

HPX-45 \$ 2.25

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AMERICAN MICROPHONE MFG. CO.

Rockford, Illinois

MODEL B-213AC MICROPHONE

Ceramic element, polystyrene case, DPST switch, coiled cord 5 ft. extended. 50-8,000 c.p.s. response.

B-213AC \$16.25

B-213C (without switch) \$13.75

X-213AC (Crystal type) \$16.25

MODEL B-215 MICROPHONE

Ceramic element, polystyrene case.

B-215 \$ 7.50

B-215S (same but with on/off slide switch) \$ 9.50

X-215 (same but with crystal button) \$ 7.00

X-215S (same as B-215S but with crystal button) \$ 9.00

MODEL 208 MICROPHONES

40-8,000c.p.s. response.

B-208 (Ceramic) \$10.60

B-208A (Ceramic w. mike—open DPST switch) \$12.50

B-208B (Ceramic w. mike—closed DPST switch) \$12.50

X-208 (Crystal) \$10.60

X-208A (Crystal w. mike—open DPST switch) \$12.50

X-208B (Crystal w. mike—closed DPST switch) \$12.50

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AMPHENOL DISTRIBUTOR DIVISION

Broadview, Illinois

POLYFOAM COAXIAL CABLES

Low-loss cables, lightweight. 52 ohm type is called 621-111. Price varies with dealer but averages about three cents more per foot than RG-8U.

MYTIE Mobile Antenna

Less than 32" High

BUT... What a Signal!

Standard and deluxe models complete with all coax, fittings and mounting parts. Available in colors to match your car! (Specify paint number when ordering.)

Standard MYTIE \$17.95

Deluxe MYTIE (colors) \$19.95

Also — MARINE ANTENNAS

Dealers write for full details

Crater Lake Antennas

P. O. BOX 823 • MEDFORD, OREGON



HEATHKIT[®] DAYSTROM

FACTORY AUTHORIZED

SALES CENTER FOR HEATHKIT

We carry the full line of high-quality low-cost HEATHKIT CB equipment. Immediate delivery from stock on transceivers, walkie-talkies, test equipment. An airmail order will have you on-the-air in a matter of days. Ask your friends about HEATHKITS.

WRITE!! WIRE!! CALL!!

zackIT corp.

1020 14th Street • Sacramento, California • Hickory 6-3131

BEN H. BARTLETT

1815 W. 85th Street, Los Angeles 47, California

AUTOMOTIVE GENERATOR NOISE FILTER

Eliminates generator noise at source. Pretuned to CB frequencies and sealed against moisture and dust.

NOISE FILTER \$3.00

CALL SIGNS

P. O. Box 933, Aurora, Illinois

Large red, white and blue signs on heavy cardboard with your CB call sign.

CALL SIGNS 3 for \$1.00

CDR ROTORS

Cornell-Dubilier Corp., S. Plainfield, N.J.

MODEL HAM-M

Will support large arrays. Automatic locking brake will hold under strong winds. Meter shows direction. Heavy-duty motor.

HAM-M \$119.50

COAXIAL CAPACITORS FOR NOISE SUPPRESSION

NFF-055B (Generator and Spark Coil rated at .5 ufd., 50 VDC, 40 Amp.) \$3.50

NFF-315D (Voltage Regulator supp. rated at .1 ufd., 600 VDC, 20 Amp.) \$2.95

MC-8D98 (Bypassing of leads to fans, motors, accessories rated at .1 ufd., 100VDC) \$2.38

CONTINENTAL ELECTRONICS & SOUND CO. (CESCO)

6151 Dayton Liberty Road, Dayton 18, Ohio

PHANTOM ANTENNA LOAD

A 52 ohm dummy load for tuning your transmitter.

PHANTOM \$1.49

GENERATOR NOISE FILTER

For elimination of generator whine. Attaches to generator.

NOISE FILTER \$2.95

COLUMBIA WIRE & SUPPLY CO.

2850 Irving Park Road, Chicago 18, Illinois

SUPER-FLEX COAXIAL CABLE

Extra-flexible conductor and jacket, low loss, lightweight. RG-58A/U and RG-8U.

CUSH CRAFT

621 Hayward Street, Manchester, N.H.

"BLITZ BUG" LIGHTNING ARRESTER

Designed to eliminate heavy static build-up on coax cable and antenna. No line loss from insertion of BLITZ BUG and will not affect SWR or performance of antenna.

BLITZ BUG \$6.50

R. L. DRAKE CO.

540 Richard Street, Miamisburg, Ohio

MODEL TV-100-LP TVI FILTER

Low pass filters for attaching to CB transmitter.

TV-100-LP \$5.95

MODEL TV-CB-LP TVI FILTER

Low pass filter for attaching to CB transmitter.

TV-CB-LP \$11.60

MODEL TV-300-HP TVI FILTER

High pass filter attaches to TV set.

TV-300-HP \$6.65

ELANEM COMPANY

1116 Inwood Place, Plainfield, N.J.

MODEL CC-1B

100 kc. crystal calibrator providing markers every 100 kc. through CB and SW spectrum. Requires 100 to 250 VDC (plate), 6.3 VAC at 3 ma. or 12.6VAC at 15 ma.

CC-1B \$9.95

G-C ELECTRONICS

Rockford, Illinois

CALL LETTERS

Set of metal foil pressure sensitive. Includes 78 numbers plus 2 "W's."

29-776 (Gold on White) \$1.20

29-778 (Silver on Black) \$1.20

DIS-CO-NECT

Device to remove whip from car in two seconds without tools. Stainless steel.

29-772 \$2.97

HUG CAP STATIC SPRING

Eliminates front-wheel friction static.

1058 \$.09

STATIC CHASER

Powder to be blown into inner tubes of tires minimizes static.

5604 (Injector) \$1.77

5605 (Powder for five tires) \$.72

GLOBE ELECTRONICS

Rockford, Illinois

MODEL 65-030 REMOTE CONTROL

For GLOBE CB-200. Enables unit to be mounted in trunk of vehicle. Contains remote speaker and mike connector, T/R switch.

65-030 PNA

MODEL GNS-1 GENERATOR NOISE SUPPRESSOR

Hi-Q parallel tuned circuit. Installs at generator in vehicle.

GNS-1 \$4.95

GYRO ELECTRONICS CO.

36 Walker Street, New York 13, N.Y.

AUTO-CALLING SYSTEM

System consists of 2 units, a coder and a decoder. Coder connects to your transmitter, decoder to other station's receiver. No signal is heard on receiver unless coder unit is activated by other station.

AUTO-CALL \$29.95

BATTERY CHARGER MODEL C-300

For Ni-Cads, Silvercells or lead/acid. DC output filtered by 2000 ufd. 2 meter ranges. Charge adjustable from 0-2 amps at 2 volts and 0-.5 amps at 6 volts.

C-300 \$13.95

TRANSVERTER POWER SUPPLY MODEL TC-6

All transistor power supply for portable transceivers. 6VDC input, 135 volts out up to 60 ma.
TC-6 \$17.95

HARRIS

114 Danray Drive, Richmond 27, Virginia

MONITOR DECAL AND CALL SIGN

Decal indicates your primary CB monitor channel. Also shows your call sign in matching colors.

DECALS \$1.00
DECALS 10 sets for \$5.00

INTERNATIONAL CRYSTAL MFG. CO.

18 N. Lee, Oklahoma City, Oklahoma

MODEL 150-137 MICROPHONE

Ceramic mike for all EXECUTIVE and other units. Push-to-talk, two-tone brown case. Response 80-8,000 c.p.s. On/off locking switch. With 5 ft. coiled 3-conductor cord.

150-137 \$13.95
150-138 (desk stand) \$ 2.20

SUPER "T" SQUELCH

Accessory for any receiver having 455kc. i.f. Has 2 transistors.

SUPER "T" \$10.50

12 POSITION SWITCH

For converting EXECUTIVE units with 3 transmit positions to 12 channel operation.

12 POSITION SWITCH \$7.50

MAHLER RESEARCH FOUNDATION

G.P.O. Box 1159, New York 1, N.Y.

FCC WARNING STICKER TYPE H-2

2¼ by 4 inches. Copyrighted decal which, when placed in vehicle window, warns that your CB equipment is protected against tampering by federal law. Club rates.

H-2 (set of 4) \$2.00
H-3 (Anodized aluminum, silver lettering on red, black or blue background, set of 4) \$3.00

CALL LETTER PLAQUE TYPE H-5

7½" by 3½" call plaque made from anodized aluminum with pressure sensitive adhesive backing. Silver lettering on red, blue or black background.

H-5 \$3.98

PERSONALIZED RIG SIGN TYPE H-6

Anodized aluminum plaque tells all that your unit was built to your personal specifications. Silver on red, blue or black.

H-6 \$1.75

MORROW RADIO MFG. CO.

2794 Market Street, Salem, Oregon

SELECTO CODE/DECODE UNIT

Nine channel unit permits base station to contact specific mobile units and vice-versa.

MODEL C CODER \$29.50
MODEL D DECODER \$59.50

OZCO SALES

Granite Avenue Ext., Canaan, Connecticut

"SNOOZER" SQUELCH UNIT

Wired add-on squelch unit for all CB sets except those with transistor circuits.

"SNOOZER" \$2.00



*Dramatic New Concept
in Radio-phones*

...THE NEW **Tel-Rad**
CITIZENS' BAND RADIO!
*6 colors to choose from . . . blend
with every interior.*

Slightly larger than a standard telephone this handsome citizens' band radio looks good anywhere . . . home, industry, mobile, marine, aircraft, etc. Engineered and designed for reliable continuous communication by experts in this field. Specs. exceed F.C.C. requirements . . . and it's priced in line . . . \$179.00 (A.C. only) \$169.00

THE EXCLUSIVE **Tel-Rad**
OFFERS THESE FEATURES:

- Normally requires no installation
- No license exam
- No special servicing
- Reliable diode power supply — 6 v., 12 v.D.C. and 117 v.A.C. or 117 v.A.C. only.
- Squelch control
- Range — 10 to 30 miles
- Choice of telephone or loudspeaker reception.

Receive or send on 5 channels with a flick of a switch. Covers all 22 citizens' band channels by changing crystals.

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Send coupon or write today for Free Brochure

Send Literature to: HI

Name

Address

State

TELEPHONE & ELECTRONIC CORP.

101 Park Avenue, Room 703, New York 17, N.Y.
YUkon 6-2120

Shakespeare

WONDEROD

introduces

SLIM GEM

new base-loaded
fiberglass antenna
for citizens band

SLIM GEM (STYLE 146)

improves the appearance
of your mobile system as it
improves reception!

Efficient space wound,
air core loading coil
construction used in
Shakespeare Normal Mode
Helical Antennas is molded
into its slim silhouette.

Only 4 feet long, Slim Gem
tapers to a keen whip.

Base ferrule is chrome
plated brass with $\frac{3}{8}$ -24
NF thread to accommodate
standard base mount.

8.95

AMATEUR NET



COLUMBIA PRODUCTS CO.
Subsidiary of Shakespeare Company
Columbia, South Carolina

PENN ELECTRONICS

26-28 E. Main Street, Plymouth, Pennsylvania

MODEL SS-61 SIGNAL SPOTTER

Transistorized crystal spotter unit. Plug in transmit crystal and it lets you calibrate your receiver.
SS-61 \$17.95

• • •

PENNWOOD NUMECHRON CO.

7249 Frankstown Ave., Pittsburgh 8, Pa.

DIGITAL READING CLOCKS

Tells time by direct reading of numbers.
MODEL 124—CALL-IDENT TYMETER (10 minute buzzer, 24 hour numbering, electric) \$22.50
MODEL 100 — JEFFERSON 24H $\frac{1}{4}$. (Similar to 124 but without 10 minute buzzer) \$15.00

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RADIO CORPORATION OF AMERICA

Telecommunication Center, Meadow Lands, Pa.

CB NOISE REDUCTION KIT (MI-17512)

Consists of 4 cable and lug assemblies, 1 0.1 ufd. 400 v. coaxial, 3 0.5 50 v. coaxial, 1 voltage regulator field assembly, 1 grounding strip, 1 kit of mounting hardware, 2 hood wiping contacts, installation instructions.
NOISE REDUCTION KIT \$15.50

• • •

SECO ELECTRONICS, INC.

5015 Penn Ave. South, Minneapolis 19, Minn.

MODEL PS-2 BATTERY ELIMINATOR

Substitutes for battery normally used to operate transistorized equipment. Clean filtered DC. Voltages from 0 to 15 v. (sufficient output for checking receivers up to 22 $\frac{1}{2}$ v. Scale calibrated at 15 ma. For 105-125VAC.
PS-2 \$13.95

MODEL 511A ATTENU-LOAD

Dual purpose 50 ohm 50 watt unit. 10 db. "T" pad attenuator reduces power levels by 10 to 1 ratio. Noninductance resistance load bank for CB.
511A \$21.50

• • •

SHURE BROTHERS, INC.

222 Hartrey Avenue, Evanston, Illinois

MODEL 404C MICROPHONE "10-4" SERIES

Rugged controlled magnetic element, selective frequency response, output equal to crystal unit, copper coiled cord, hand-held push-to-talk, 200-8,000 c.p.s.
404C \$19.80

MODEL 440SL MICROPHONE

Desk type with rugged controlled magnetic element, selective frequency response, output equal to crystal unit, 300-3,000 c.p.s.
440SL \$28.50

• • •

TETRA ELECTRONIC CORP.

P. O. Box 9794 Rosslyn Sta., Arlington, Virginia

MODEL 27 "TETRA TRAP"

Reduces generator noise. Tuned trap. For 6, 12, or 24 volt generators.
MODEL 27 \$3.95

(Continued on page 50)

Buying CB ACCESSORIES

As all astute readers of this special Directory issue of CBH have noted, there are *quite a few* CB type accessories available to the clan.

Generally speaking, accessories fall into two categories, those designed specifically for your rig (or a limited number of rig types) and those designed to enhance the appearance and/or operation of any and all CB rigs.

Watt meters, SWR meters, timers, switches, decals, ad infinitum generally comprise the latter category, and the buyer need exert little care in picking the accessories, except to note *whether or not he has a real need or desire for the unit.*

Specialized accessories are, however, a different story. Into this "specialized" category fall such items as "space crystals," variable tuners for fixed-tuned rigs, RF (receiver) pre-amplifiers, S-meters, noise limiters and clip-pers, and so on.

When such an item catches your eye, try the following two-point test on the item *before* buying.

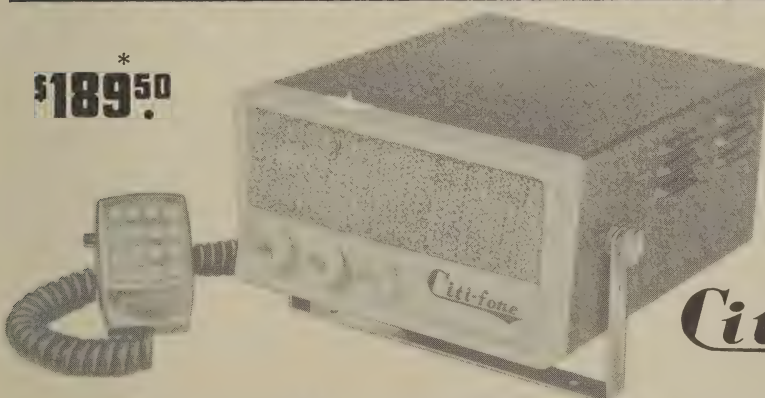
- (1) Does the manufacturer state the accessory unit will definitely work with your rig?
- (2) Will the manufacturer provide complete "hook-up" instructions?

Needless to say, you, as a buyer, should exert moderate caution when ordering CB accessories by mail from across the nation. Does the manufacturer advertise in CBH (thereby alerting you the company has been *checked* out by our legal department)? Who do you know who has purchased one of the units? Is the purchaser satisfied with the unit?

There is an old latin phrase recently made re-popular by one Wayne Green. It reads "*Caveat Emptor.*" It means "*Let the buyer beware!*"

10-7 T.K.

NEW DESIGN FEATURES



Attractively styled Silver Jet vinyl fabric covered aluminum enclosure with white molded vinyl front.

Citi-fone®

CITIZEN'S BAND RADIO TELEPHONE

- New "noise immune" squelch circuit.
- New "Pi" plate and output tuned circuit assuring maximum transfer of power to antenna.
- Gated audio response for greater talk-power.
- Front panel mounted modulation and R.F. indicator.
- Heavy duty power supply capable of more than twice normal operating requirements.
- Heavy duty, high efficiency coaxial antenna connector.

- External speaker connections.
- Hermetically sealed relay guarantees virtually trouble-free operation.
- High level, full power AM modulation.

TWO STYLES: CD6/6—6 Volt D.C. and 115 Volt A.C.; CD6/12—12 Volt D.C. and 115 Volt A.C.

*Suggested retail price \$189.50 complete with crystals for 1 channel, 2 power cords, mounting bracket, and ceramic microphone with coiled cord and hanger.

MULTI-PRODUCTS COMPANY • 21470 COOLIDGE HIGHWAY • OAK PARK 37, MICHIGAN

CLASSIFIED

Classified rate \$5.00 per five lines (minimum) for non-commercial displays. Commercial displays \$10.00 per five lines (minimum) Payable in advance. Deadline for September issue—August 1.

FROM OUTER SPACE—"Q-Bird" signal tone device. Users report, "Most effective station-to-station signaling device possible for crowded channels." CBH reports, "Wierdest signal you've ever heard." Easy to connect—with full instructions, \$3.50 postpaid.

ANTI-STATIC auto wheel and tire static eliminator, for five wheels and tires. Quieter mobile for only \$1.50 postpaid.

SOLDERING IRON for six or twelve volts. At this super-low price, buy one for each car. Six hundred watt capacity, \$2.00 postpaid.

TWIN DIODE to replace any rectifier tube for higher B+ (more output). No filament drain, no tube replacement. Simple to install for better rig performance. Specify type rectifier tube to be replaced (unit plugs in existing rectifier socket). \$3.50 postpaid.

D.P.D.T. SLIDE SWITCH, with panel plate (for Q-Bird), only 95 cents postpaid.

JOHNSON VIKING variable tuner, tunes all channels with this popular rig. Available August, order now. Only \$9.95 with complete instructions.

(Dealers for above items invited.) **TWO-TONE ELECTRONICS, 948 North Spaulding, Hollywood 48, California.**

CB—QSL—SWL—WPE CARDS! Printed in one or more colors from type, line drawings or photographs. QSO 5x3 file cards. Send 10c for samples. **MALGO PRESS, 1937 Glendale Ave., Toledo 14, Ohio.**

CBers hear only the channel you tune. Dual conversion adapter kit, all parts, schematic, pictorial for HE-15 & 15A, TR-800, 910, RA395, 449, etc. \$14.95, with tubes \$16.50 or \$5.00 deposit plus C.O.D. **BAINBRIDGE RADIO, 2649 Bainbridge Ave., New York 58, N.Y.**

CB OPERATORS — 1,000 "BUSINESS TYPE" cards. All prices postpaid. Flat black \$4.00. Beautifully embossed, blue or black \$4.75. Two color, red with blue or black \$5.50. (Up to seven horizontal lines on white stock only.) Add \$1.00 for THREE GIANT CALL SIGNS. Send information, call sign and layout of words to: **CALL SIGNS, P. O. Box 933C, Aurora, Illinois.**

DECALS—Special matching decals for CB. Display your CB call and your primary monitor channel. Order a complete set for only one dollar or save half by combining your order with other CB operators and order ten sets for five dollars. Order from: **Harris, 114 Danray Drive, Richmond 27, Va.**

REPORT FORMS FOR CB MONITORING AND SWL—Complete, concise, for all listening. Introductory price \$3.50 a hundred postpaid. No C.O.D.'s please. **Calvern Company, 10508 Parkwood Dr., Kensington, Maryland.**

AUTOMOTIVE GENERATOR NOISE FILTER — This filter eliminates the noises from the generator

at the source; on the generator. It is pre-tuned to CB frequencies and sealed against moisture, oil and dust. Simple to install, efficient in operation. Only \$3.00 postpaid. If your dealer does not stock, write: **Ben N. Bartlett, 11W5592, 1815 W. 85th St., Los Angeles 47, Calif.**

STOP WASTING THOSE WATTS! Let the SWR-1 help you improve that inefficient antenna system! Read r.f. power and losses directly in WATTS—no guessing! A simple flick of the switch tells the story! Only \$19.95! Write for details. **H & L Electronics, P. O. Box 125, Medford, Oregon.**

GROUND PLANE ANTENNAS—**Vantenna** heavy duty citizens band antennas are designed to withstand high winds and deliver maximum performance. The elements are constructed of $\frac{3}{8}$ " and $\frac{1}{4}$ " tempered aluminum rod. Solid cast aluminum base may be mounted either directly on top or offset $1\frac{1}{4}$ " mast. The radials are drooped to provide 50-ohm match. The non-directional low-angle radiation pattern makes the VANTENNA excellent for mountainous terrain. Special price \$21.95 postpaid in U.S.A. Send for literature. **VANTENNA PRODUCTS, P. O. Box 172, Dover, N.J.**

CB-WPE-QSL CARDS — Samples ten cents, with catalogue twenty-five cents. **BROWNIE 3W1974/W3CJ1, 3110C Lehigh St., Allentown, Pa.** Order yours from Hamdom's leading QSL printer since 1939.

CRYSTAL SWAP-SHOP—Unwanted crystals coming out of your sockets? If they're good why not swap them for ones you've always wanted? Send 'em with the channel number and type of CB rig they're for, plus fifty cents per channel. Don't forget to list the type of rig you need replacement crystals for and your 1st, 2nd, and 3rd choices. We'll hold your order till one comes in if it's not in stock. We reserve right to refuse to accept unsatisfactory crystals. **CRYSTALSWAP, 1519 Scenic Drive, Modesto, Calif.**

NEXT MONTH —

SPECIAL "Fix-up Your Rig Issue!"

Whether you are handy with a soldering iron or not, the gigantic September issue of CB HORIZONS (out August 10th) will be the most interesting CB publication ever assembled! One entire issue devoted to *modifications and additions YOU can make to YOUR CB station!*

ALSO—Starting in September . . .

• S-9

A reporting column all about WHO is being HEARD where on SKIP!

• CBHVMP

First report to our readers on the CBH sponsored *Voluntary Monitoring Project!*

YOUR ONLY GUARANTEE of receiving this super-special issue is a paid-up subscription. See special BONUS subscription form between pages 2 and 3.

CBH—The Citizens Band Radio Magazine

CB TECH TALK

Prepared for CBH by
Jim Gibson, 2W7610

(Readers: Write Jim Gibson in care of CBH, Box 3150, Modesto, California)

One thing we at CBH learn from reader mail. You are not afraid to tell us when you want to see something in print. Thus this brand new "CB Tech Talk" section, a monthly column devoted to the experimenters and "rig-improvers" in the CB world.

Here is how this portion of CBH will be run. Each month we will pass along a few handy hints on rigs and antennas, tuning meters and so on, which you should find of interest to your CB operation. Then towards the end of the column (which will grow with reader interest) we will answer questions fired our way from you, a reader.

When you send along a technical problem or when you need some advice, please be good enough to include a self-addressed stamped envelope so that we may also send along a personal answer to your question.

Only one limitation...one question per subscriber per month! OK...now let's look at a friend of mine, a gadget I wouldn't be without in my CB shack.

THE SWR METER

This is not a review of a certain piece of equipment, although we will limit our discussion to a particular unit.

I don't know how many times CBers have dropped into the shop requesting that I "soup up the rig a few watts" to give them a little added punch on the band. Forgetting for the moment the ethics involved here, let's consider only what you do when you short out a grid resistor or raise the plate voltage on your CB rig.

POSITIVE EFFECTS

(A) Power output *may* go up one-two watts.

NEGATIVE EFFECTS

(A) Modulation percentage will go down, as

the transceiver's modulation is capable of handling five watts, *and probably no more*. Thus when you raise your power input, and do not change the modulation, you end up with more signal, but you lose all chances for 100 per cent modulation. *Net result*, less readable signal.

(B) Grid drive on the final will go up, probably beyond the rating capabilities of the tube. *Net result*, shorter final tube life.

(C) The final amplifier will run hotter because of the greater input. Extra heat in a closely packed transceiver will make nearby components hotter, thereby shortening their life and decreasing the unit's reliability.

NOW...is it really worth the trouble, and expense? *We say no!*

So what does all of this have to do with an SWR reflected power meter? Simply this. You want a better signal, which is natural enough. But the real potential ahead of you is not the rig (and its modifications), it's the antenna (and its modifications).

This is not an antenna discussion. This is a discussion of loading your antenna. First of all, recognize this. You have taken your commercially built antenna from the box. You have followed the instructions, and the antenna is mounted according to the directions. BUT, you have no guarantee the antenna is working as it should. No matter how careful you have been in the antenna erection, there are factors around the antenna which influence its performance. It is these factors which the antenna manufacturer could not take into account when he wrote the instructions. These factors may include (A) proximity of TV antenna to CB antenna, (B) composition of roof, (C) proximity of nearby trees, (D) proximity

of nearby power lines and power poles, (E) actual antenna height above ground, and many others.

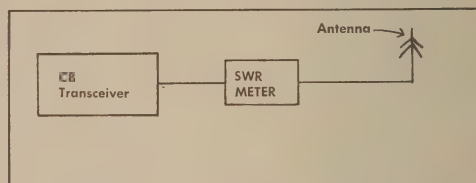
Any one (or more than one) of these factors can effect the loading of your antenna, and its performance. When such factors do influence your antenna, your SWR (standing wave ratio) and "match" will vary away from the optimum, and in the end result, your antenna will not work as it was designed to work.



And this, finally, is where the SWR "Reflected Power Meter" comes into the picture.

Our meter is a Heathkit AM-2. This meter sells for \$15.95 in kit form, and requires about

60 minutes of wiring time. What it does is this. You insert the meter into your antenna (transmission) line between the rig and the antenna, preferably close to the rig (you can actually go from the rig output directly into the meter through an appropriate coaxial fitting, and then into the coaxial line to the antenna). The meter matches both 50 and 75 ohms, and may be left in the feedline permanently. Now, through a switching arrangement the meter will tell you (A) how much forward power you have going from the rig to the antenna, and (B) how much "reverse power" you have coming back down from the antenna because of "improper match."



It is part B that interests us. By observing the ratio between A and B, you can work with your antenna (tuning, pruning, re-mounting it, etc.) until you have the SWR (standing wave ratio) down to as near to one to one as possible.

Here is what one to one means. When your antenna is not matched properly, and the trees, TV antennas, etc. are having profound effects on its operation, the meter will show you a high percentage of "reflected power" coming back down the transmission line to your set. In other words, your antenna will not be radiating all of the power your set sends up the line. In fact, a goodly percentage of the transmitted power will go up the coax to the antenna, and then turn around and come right back down again! This is inefficiency, this is wasted power, and this is where an SWR meter will help you. The meter will tell you how much power you are wasting, and in turn, how much of an improvement you are effecting to your system's efficiency by re-working the antenna.

Try it . . . you will find it the handiest gadget in the shack!

Til next month, C U on 11.

10-7 J.G.

GIZMOTCHY 2 IN 1 CITIZENS BAND BEAM

*A flick of the switch from
Horizontal to Vertical Beam
A Versatile and Powerful Boost
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VERTICAL BEAM — Only \$44.95

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CLEARING THE AIR ABOUT QUADS

(Continued from page 6)

bend with white tape. Finally, measure 5 feet from the last corner and cut the wire at that point. Scrape the enamel from the last corner and cut the wire at that point. Scrape the enamel from six inches and fasten the end of the wire to the other end of the insulator so that from the last corner to the center of the insulator again measures 4 feet and $7\frac{1}{2}$ inches.

With the radiator loop thus prepared, prepare the four inches of coax protruding from the balancing sleeve by stripping three and a half inches of the vinyl jacket. Twist the shield braid to make one lead, then strip three inches of the inner insulation to make a lead of the inner conductor. Tin the center conductor and the twisted coax braid, and fasten one to the scraped wire at each end of the insulator. Make a good firm solder joint. Then weatherproof the end of the coax with several turns of plastic tape.

The reflector loop is prepared just like the radiator, except that the shorting stub is attached rather than coax. The stub is made with thirty-nine inches of No. 14 wire carefully scraped clean of enamel over its entire length—or you can use the same length of any heavy copper wire, but the wire *must* be bare or the stub will not work.

Bend the wire into a square-cornered “U” three inches on the bottom and eighteen inches on a side (Figure 8). Slip a Fahnestock clip onto each side of the “U” and connect the two clips by soldering a short piece

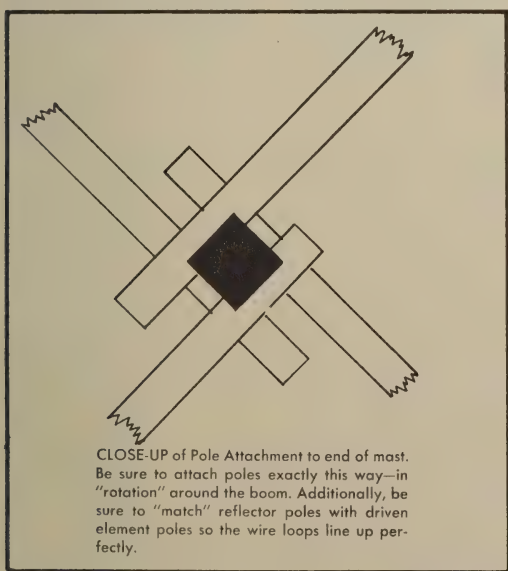


Figure 6

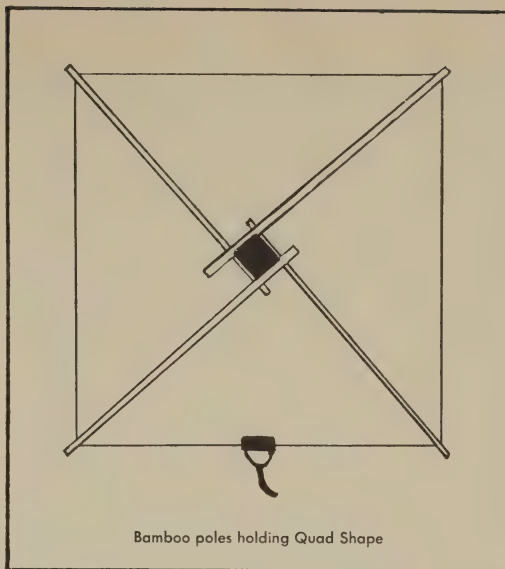


Figure 5

of bare wire between them to make a sliding short. With the proper length of connecting wire, the clips should slide together smoothly along the stub without changing the three inch separation of the arms.

With the sliding short in place, solder the ends of the stub onto the ends of the reflector loop at the insulator. You are now ready to take everything outside and assemble the Quad.

The bamboo spreaders are wired to the end of the boom as illustrated, Figure 6. They must be fastened very rigidly, so wire tightly and carefully. First, place two of the bamboo poles in the opposite grooves as illustrated, and strap them tightly into place with electrical tape near the butt ends. Wire them firmly to the boom and each other at point “A”. Then at points “B” and “C” wire them together with several turns of wire to give the structure added rigidity. Similarly wire the other pair of poles at right angles to the first pair.

When the first set of spreaders is in place, string one Quad loop roughly into position. Measure 6 feet and 6 inches along each pole from the center of the boom and attach a corner to each pole at this point with electrical tape (handy stuff in Quad building). The 6 feet and 6 inches point should be just about right, but move the corners up or down the poles until you have an exact square, with each corner exactly the same distance from the boom center, and with the wires under enough tension to hold a straight line between the corners.

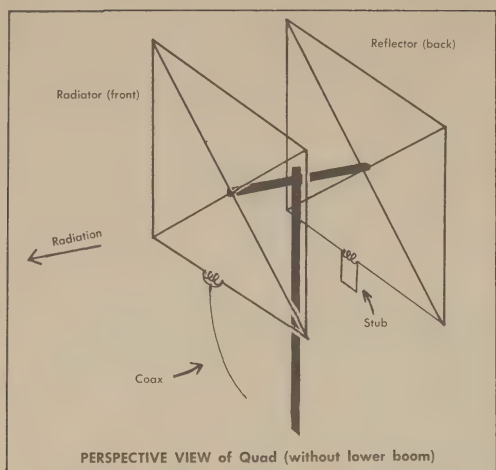


Figure 3

When all the corners are exactly right, drill a tiny hole in each pole about a quarter-inch farther out from your corner. Pass the binding wire once through this hole, and with that as a base, fasten the corner firmly to the pole. Cut the bamboo pole off just beyond the next joint outside the corner.

Now, at the other end of the boom, attach the spreaders and the reflector loop the same way. At this point, if you haven't already done so to make construction easier, clamp the boom to a supported section of mast with the U-bolt. Then clamp the lower boom — the 4 feet and 8 inches 1 by 1 — to the mast about 4½ feet lower and parallel to the main boom. This should bring the ends of the lower boom right up against the two insulators. With tape, strap the feeder coax to the lower boom to take its weight off the lower side of the square. Similarly lay the tuning stub of the reflector on the other end of the lower

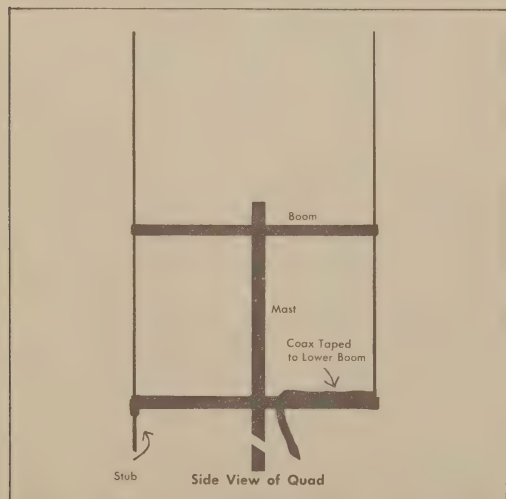


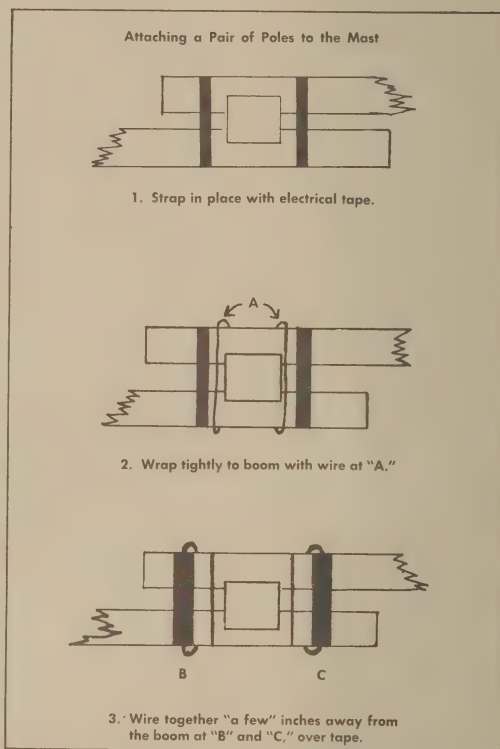
Figure 4

boom, fastening its base in place with wire. The Quad is now completed and ready to tune and mount on your mast.

When you plug the other end of your coax into your transmitter, don't be surprised if your RF light doesn't indicate loading — the final will probably have to be returned for the Quad, so be prepared to do this.

TUNING THE REFLECTOR STUB

It is far easier (and safer) to tune the reflector with the Quad at an easily reachable height above the ground or your mounting point. Tuning it low and mounting it high will make a slight difference in performance,



but one which you probably won't notice, so tune it where it is safe and convenient. Set the Quad up a short mast and point the *back* (the reflector end) at a station, preferably at least a mile away, whose direction you know accurately — either the station of a cooperating CB friend or somebody just plain long-winded. Start with the sliding short in the middle of the stub and nudge it back and forth along the stub while a friend watches your S-meter and your cooperating station provides a steady signal. Or adjust it an inch at a time and run in to check the meter yourself. When you get the *lowest* S-meter read-

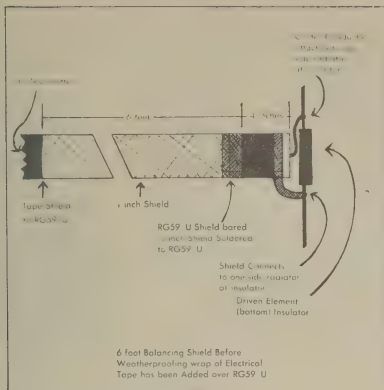


Figure 2

ing, the Quad's front-to-back ratio (its rejection of signals from the back) is best, and its forward gain will be approximately maximum. If you don't have an S-meter, set the short about in the middle of the stub and let it go—the Quad will work quite well anyway.

Finally, put the Quad up on its 15-foot mast. Or if you plan to rotate it, ten feet of mast, a TV rotator and five feet of mast, plus the 4½ feet of antenna above the boom make a nicely legal total of twenty feet. You can, of course, mount the Quad lower—if you use only one 5-foot mast section below the rotator you probably won't even need guy lines, but don't quote me on that if it blows down.

Materials for the 27 mc. Quad

- 8 8-foot bamboo poles*
- 1 5-foot 2 by 2
- 1 4 feet and 8 inches 1 by 1
- 80 feet No. 14 enameled copper wire
- 8 feet RG-8/U or RG-11/U *braid shield only* (to be used for balancing stub)
- 2 U-bolts with straps
- 2 light ceramic insulators
- 2 Fahnstock clips
- Any strong wire for fastening poles to boom.
- Black plastic electrical tape.
- Your own mast, iron and solder.
- *try a fishing supply store for these—get straight poles without splits.

A QUICK QUAD

If you are interested in putting together your own quad, but show concern about the mounting hardware, and what have you, we refer you to the *Cubex Company*, 3322 Tonia Avenue, Altadena, California. Cubex (the granddaddy manufacturer of Quad Antennas) has a kit out, which supplies a mast mount, set of end spiders to hold your spreaders,

boom and a piece of mast to go to your rotor. The kit parts are cast aluminum, which means fewer headaches for you in the mechanical department. With this kit you will need your wire and bamboo poles...and that is it! Price is \$27.50.

Publisher's Note: This is a "correction-article" aimed at the CBers of America who have read with interest (and built with dismay) the Cubical Quad antenna for CB currently running in "another" magazine. If you read the article on page 79 of the July issue of *Popular Electronics* and immediately ran to the nearest supply house to purchase your bamboo poles, wire and clamps, you undoubtedly know (now!) that the dimensions given in the aforementioned magazine were incorrect. As a matter of point, the dimensions given were for the fifteen meter amateur band (twenty-one megacycles) and the antenna (if built as described) *will not work for 27 megacycle class D systems.*

Thus our title... "Clearing the Air About Quads"... and our sincere hope that you will build this fine antenna for your base station operations.

10-7 R.B.C.

A RE-DONE QUAD

Finally, if your Quad interest stems from the previously mentioned article in *Popular Electronics*, we suggest you set about with hack saw and "snips" to "cut-down" the PE dimensions to those given here, which are for 27 mc. operation. The bamboo poles, reflector and radiator squares and matching stub (plus coaxial sleeve matching device) must be cut-down to 27 mc. operation. In short you have the original parts needed, now just follow the CBH instructions and you are "on-the-air."

C.L. 2A3788



announcing the
Cubex "11 METER"
CUBICAL
QUAD

- FIRST Cubical QUAD Antenna offered for CB Service
 - 10 db gain, high front-to-back ratio (24 db)
 - Extremely lightweight—only 16 lbs., easily rotated with TV rotor
- MODEL CBQ—Only \$39.50
MODEL CBQ-FG (Fiberglass radials)—Only \$64.50

NEW—Build your own Quad with ease! Cubex's new "Boom-Kit" includes all hardware for mounting, mast clamp and boom. Cast aluminum fittings... **\$27.50.** Send for complete details.

CUBEX CO.

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7.K. on C.B.

by Tom Kneitel. 2W1965

FIRST A WORD FROM...

The San Francisco office of the FCC has asked that we pass the word along to 12W CB clubs that they will be pleased to have one of their engineers attend a club meeting to speak on current FCC-CB doings and to answer any questions the members may have regarding the proper use of CB. Interested clubs please contact: Engineer in charge, Federal Communications Commission, 323-A Customhouse, San Francisco 26, Calif.

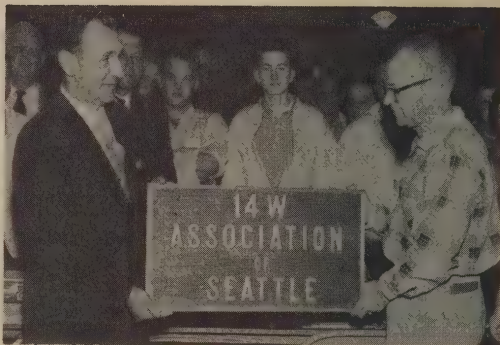
Bill, 12W2310, and Harry, 12W3439, passed through Modesto the other day. They stopped just long enough to tell us about the Southern Alameda CB Club in San Leandro, Calif. Presently comprised of about eighty members, the club has its own frequency meter for the use of the members and a sizeable technical committee.

IN THE MAILBAG

Today the mailman brought us a new kind of "idiot's delight" in the form of a CB chain letter. This one, called "Play International" came from a 19A in Delta, Ohio, and suggested that if we sent four copies of his letter, etc., etc., we would be astonished as to where 225 CBL cards (QSL's) will have come from in one month." We were also admonished to "return the letter to the last address if you don't want to play so that you won't spoil the fun of others."

This is funny? It's *illegal*, and that's *not* funny! Chain letters are against *Post Office Department* regulations, *even if no money is involved*.

Here's the bit. If you want CBL cards and don't mind wrangling with federal regulations why not just buy yourself a 100 watt rig and start calling "CQ". You'll surely earn many more CBL cards in a month than you will receive with the chain letter, and besides, you'll at least be running afoul of the FCC,



14W ASSOCIATION of Seattle really does it up right! Here two proud officials of the Association display their very handsome plaque for the CBers of America.

"our own kind," rather than the *Post Office* boys who don't know from resistors, antennas and CBL cards. With Federal budget allocations coming up, we would much rather have the hard working FCC boys get these extra convictions than the *Post Office* people. Support your FCC! *Grow up!*
BIG JAMBOREE IN ERIE!

The first annual "Pony" Jamboree will be held in Erie, Pa. on August 26th and 27th. Erie is centrally located in the tri-state area with beaches, fishing, boating and swimming.

The Jamboree will have displays of CB gear, prizes trophies and favors, and to top it off, Saturday night (Aug. 26th) there will be a dance.

Contact Art Stefinelli, Pres., Erie CB Assoc., 2223 Parade St., Erie, Pa. for information on the Jamboree.

UP IN THEM THAR HILLS

From the CB club in Midway, Kentucky, we received the following letter which, as they say, "*could have been actually written*," although they didn't say if, by one of their own members.

"Dear Mr. FCC,

"You'uns ain't very good at letter writin',

LAFAYETTE is America's Citizens Band Headquarters

Complete Portable Communications for Everyone



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NO LICENSES,
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LAFAYETTE 9-TRANSISTOR CITIZENS BAND "WALKIE TALKIE"

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- Uses Inexpensive Penlight Batteries • No License, Tests or Age Limits • Comes with Leather Carrying Case, Earphone, Antenna, Batteries and Crystals

As simple and easy to use as the telephone—and twice as handy. Receives and transmits up to 7 miles under favorable conditions, or 1.5 miles under average conditions. Weighs only 18-oz. and slips into your pocket. Push-to-talk button operates built-in speaker as sensitive microphone.

HE-29

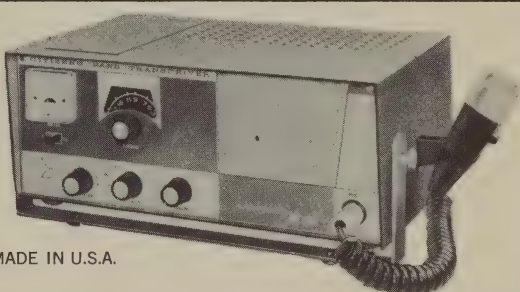
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Now With Added Deluxe Features—

- Pi-Network for Greater Power Output • Calibrated "S" Meter
- 14 Tube Performance, 3 Diodes • Built-in 12 Volt Power Supply for Mobile Use • Complete with Matched Crystals for Channel 9



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A highly efficient 2-way communications system operating over a distance of up to 20 miles or more depending on terrain. Features 4 crystal-controlled transmit positions and 4 crystal-controlled receive positions. Tuneable superhet receiver covers all 23 assigned channels. Other highlights include dependable push-to-talk ceramic mike & relay, adjustable squelch control, automatic series gate noise limiter and illuminated dial.

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A compact, precision transmitter and receiver covering up to a 20 mile or more radius, depending upon conditions. The HE-15A features an effective full-wave variable noise limiter, RF jack on front panel, planetary vernier tuning, 5-prong microphone jack for easy relay addition, and 12 tube performance from 4 dual-function tubes, 2 single-function tubes, 2 rectifiers.

- HE-19 Telescoping Whip Antenna Net 3.95
- HE-16 Power Supply for 12 Volts Net 10.95
- HE-18 Power Supply for 6 volts Net 10.95

HE-800WX

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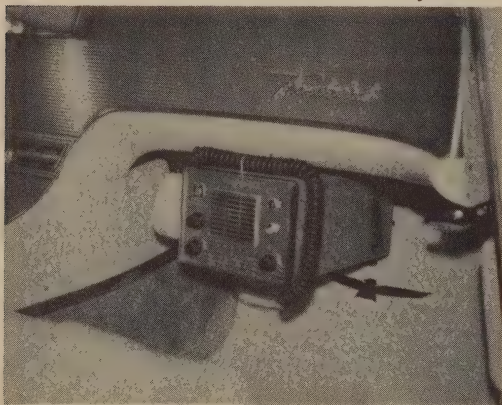
CUSTOM RIG anyone? Frank Webster, 11W2342 doesn't know it, but his rig (and Frank himself) "are now showing" in hundreds of CB centers around the country. This rig (and Frank) appear on our brand new window display poster "at your favorite CB Store" where CBH is sold! P.S.—This is the E-NBF-X11, shown in our directory.

yoe all dun went and sent me a letter on a pink scrap of paper whut aint as good as this paper sack I'm answering you on. I don't know whut yore talking bout nohow. This business of having no license and in the same breath you yourself said I was using the wrong letters, then yo'all done and went and said I repeated a message.

I writ fer a license over a week ago and you ain't sent hit yet. If you wuz a tending to yore business, stead o setting round listening at tha radio, I wood a had a license. The feller that sold me this set said that I couldn't talk on hit over forty miles so if anybody's radio is overpowered hit must be yours, else you wouldn't a heard me. You said we repeated messages, shux, if we only talked about whut went on here in the holler hit would have everybody in the holler in jail.

Hurry up and git me a license.

Jake"



MOBILE IN A T-BIRD? Easy says Lynn Brumage, 1Q1248 of Portsmouth, New Hampshire (see last month's CBH review of the Johnson Messenger).

NEXT MONTH—

Our next issue will be a big "Fix Up Your Station" edition. Hints, kinks and tips from clubs and individual CBers across the nation on how you can, with little effort, expense, or technical savvy, slick up your operation to the point where you will have the least amount of problems with the most efficiency. Watch for it, and don't miss it. "T.K. on C.B." will be back to full length in that issue (we had to shorten it down this month to fit the directory). You'll also see our regular columns on Surplus, Antennas, Tech-talk, CBH Showcase, Modesto Mike, Sunspots and the regular assortment of useful special features.

10-7 T.K.

LOCAL MONITORING CHANNELS

Arkansas	
Booneville	Channel 3
Fayetteville	Channels 7, 11
Fort Smith	Channel 7
Little Rock	Channels 7, 11
California	
Alameda	Channel 15
Fresno	Channel 9
Los Angeles	Channel 2
Modesto	Channels 11, 15
Sacramento	Channel 11
Stockton	Channel 2
Tracy	Channel 2
Connecticut	
Torrington	Channel 11
Florida	
Plant City	Channels 4, 9, 11
Tampa	Channels 9, 11
Illinois	
Highland Park	Channel 9
Mundelin	Channel 9
Peoria	Channel 14
Indiana	
Elkhart	Channel 9
New York	
New York City	Channels 7, 9
Oklahoma	
Tulsa	Channels 4, 9
Pennsylvania	
Pittsburgh	Channels 9, 11
Williamsport	Channels 4, 9
Texas	
San Antonio	Channel 8
Virginia	
Hot Springs	Channel 11
Newport News	Channel 11
Norfolk	Channel 11
Richmond	Channel 11
Washington	
Kennewick	Channel 15
Wisconsin	
Chippewa Falls	Channel 7
Eau Claire	Channel 7
Kenosha Co.	Channel 7
Racine Co.	Channel 7
Sheboygan	Channel 11

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32" of Dynamic CB Antenna

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Makes signal more audible over natural CB channel noises.

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CB-1

Name _____

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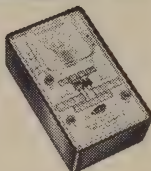
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For low power transmitters up to 160 MC. Calibrated for direct percentage reading of amplitude modulation; 0-5 watts RF output; 0-400 ma. RF output. Connection provided for headphones or scope. Optional "T" pad attenuator adapts to transmitters rated up to 50 watts.



Complete with all necessary cables and adaptors
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For 50 ohm coaxial line applications. Simplified direct reading scales for SWR Antenna System Efficiency (read in percent and a Good-Poor scale), Forward Power and Reflected Power. Instrument insertion loss is negligible up to 160 mc. Power ranges are 0-10, 0-100 and 0-1000 watts maximum.



Comp. with instructions
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Dual purpose 50 ohm-50 watt unit—ten db "T" pad attenuator reduces power levels by 10 to 1 ratio . . . plus fully shielded 50 ohm termination for coaxial cable applications. Noninductance resistance load bank for low frequencies as well as VHF to 160 mc. With SO-239 coaxial jacks for input and output.



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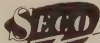
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☐ GCT-9 ☐ 100 ☐ PS-2

FREE Selling and Installing Citizens Band Equipment Bulletin

Name

Address

City State

STATION—OPERATOR ACCESSORIES

(Continued from page 38)

TIMES WIRE & CABLE

Wallingford, Connecticut

T-LINE CABLE

Forty per cent lower attenuation, lightweight, long life cable with higher tensile strength than standard cable. For 50 ohm installations.

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THE TURNER CO.

909 17th Street, S.E., Cedar Rapids, Iowa

MODEL 350C MICROPHONE

Designed specifically for CB. Mobile type ceramic unit. Has DSPT switch, hanger button and dash bracket and 5' (extended) coiled cord. 80-7,000 c.p.s.

350C \$16.80

350C (Crystal) \$16.80

350C (Carbon) \$19.00

MODEL 250 MICROPHONE

"Lift switch" mike designed for base station operation. Activates when lifted or when front bar is depressed. Has locking switch on touch bar.

250 (Dynamic) \$49.50

256 (Crystal) \$35.00

255 (Crystal, no switches) \$16.00

254 (Crystal, touch bar only) \$23.50

252 (Dynamic, touch bar only) \$36.50

• • •

TWO-TONE ELECTRONICS

948 N. Spaulding, Hollywood 46, California

MODEL TD-2 RECTIFIER TUBE REPLACEMENT

Twine diode plugs into socket to replace 5Y3, 6AX5, 6BW4, 6X4, 6X5, 12BW4 tubes. Increases efficiency of transceiver (more signal out). Specify tube being replaced.

TD-2 \$3.50

MODEL JT-2 VARIABLE TUNER UNIT

Makes Johnson Viking Messenger receiver tunable. Plugs in crystal socket. Available after August 25th (approximately).

JT-2 \$9.95

MODEL TT-2 "Q-BIRD" TONE SIGNALER

Varying pitch tone device lets your mobile units know you want them. Can be heard through terrific interference.

TT-2 \$3.50

DPDT Slide switch for Q-BIRD \$.95

MODEL QRM-1 ANTI STATIC POWDER

Eliminates wheel and tire static. Developed by Ford Co. for their cars.

QRM-1 \$1.50

• • •

WESTERN MASS. ELECTRONICS

Great Barrington, Massachusetts

"HUSHPUPPY" SQUELCH

Adds squelch to any CB transceiver circuit, attaches to speaker terminals.

"HUSHPUPPY" \$4.98

FIRST CLASS
Permit No. 309
MODESTO, CALIF.

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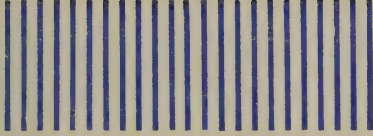
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BRAND NEW SERVICE —

FOR CBers . . .

courtesy of CB HORIZONS

CBH:

Please send me additional information on the following units shown in the August issue.

Manufacturer

Model or Type

(1) _____

(2) _____

(3) _____

(4) _____

(5) _____

(6) _____

Need more room? Send along a letter!

Name _____ **Call** _____

Address _____

City _____ **State** _____

P.S.—Note to CBH: Here is the name of a buddy who doesn't subscribe to CBH. Send him full details.

Name _____ **Call** _____

Address _____

City _____ **State** _____

CB and SUNSPOTS

... what's what with SKIP?

Reader response to our two-part series on CB skip has been so overwhelming that CBH is drafting up a regular monthly page size report on this very subject for our readers. This month's column is intended as a "pre-view" of the format which will continue in more substantial form in September.

IN REVIEW

This past summer of "E-SKIP" has produced the most violent season of short-range DX interference ever known to eleven meter CB operators. Interference and long-range reception has been particularly violent late in June and early in July (as we go to press) across the entire nation. CBers report to CBH "reception from mobiles and fixed stations on all three channels for hours and even days on end, from stations 400-2000 miles distant."

Happily, this type of interference is on the wane, even as we write. By late in July the frequency of such reception will have dwindled considerably to only an occasional mid-morning and late afternoon occurrence.

FUTURE

At the same time, the last remnants of this "Sun-Spot Cycle's F2 skip" begins to climb towards its late-fall seasonal peak. Reception along the west coast to Florida, and other southeastern areas will begin to show towards mid-August, occurring for the most part around noon PDT, or for eastern observers, mid-and late afternoon, EDT. Mid-western CBers will find South American hams and commercial stations in the 27 mc. region especially loud late in the afternoon.

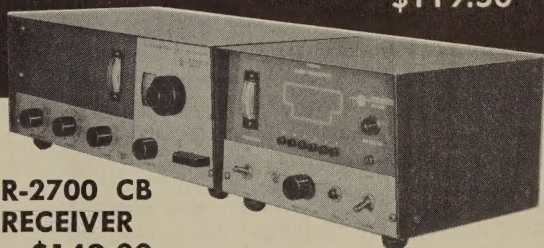
Rocky Mountain state CBers will find reception from 22W (Puerto Rico) and Hawaii (21W) throughout the day, but prevailing in the afternoon hours.

11W, 12W, 13W and 14W stations will close out the day during August with skip-interference from 21W (Hawaii) lasting well beyond sunset on many occasions.

10-7 R.B.C.

Hear 'Em — Work 'Em Better with BROWNING CB Equipment

**S-NINE CB
TRANSMITTER
\$119.50**



**R-2700 CB
RECEIVER
\$149.00**

Make your CB base station a real communications center with this Browning team. Highly sensitive and selective R-2700 Receiver delivers sharp, noise-free reception on all CB channels. Overcomes even the most severe atmospheric and man-made interference. Browning S-NINE Transmitter allows full power transmission on all channels — introduces new features and advanced design never previously utilized in CB communications.

**Also Available
R-2700 Receiver PLUS
T-2700 Transmitter
SPECIAL PACKAGE PRICE**



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FOUR CONVENIENT PURCHASE PLANS



BEFORE WE SIGN OFF

D.C. FLASHES!!!

by Rex Holmes

"Our Man in Washington"

CANADIAN CB — "Around April 15, '62"

Word from the Horizons Publications Toronto Bureau hovers around a "leak" from the Department of Transport (DOT), Ottawa.

Canadian CB operation will be announced "very soon" with the following *known* (at this time) restrictions and requirements.

(A) Transmitters will be limited to contacts with other "same licensee class" stations within a five mile range of the base station. Contacts beyond this range will require special permission of DOT.

(B) Transmitters will run five watts AM input.

(C) Licensing (it appears) will be merely a matter of filling out a form.

(D) Reciprocal licensing with the United States is "highly unlikely."

(E) Every effort is being made to keep Canadian CB strictly "Canadian." Special "type acceptance" rules are now being drafted which will require that every transmitter sold to the service in Canada must have DOT type acceptance (i.e., the approval of the government). The DOT is reported to have said, "We have no intention of turning the Canadian CB service into a lucrative market for the American and Japanese manufacturers." In other words, the DOT is likely to "sit tight" on granting applications for type acceptance on imported units for "quite some time."

CBers will be gladdened to know that Horizons Publications will be establishing a full time office in Toronto to cover the Canadian

CB picture as it develops. At such time as this service becomes effective (between April 1 and 15, 1962) *CB Horizons* will be on the scene. It is anticipated that Canadian CB activities will be covered news-wise with special monthly features and column in these pages.

NAUGHTY-NAUGHTY

CBer Bob Minger, 12W4950, of Fresno, Calif. has just been ordered by the FCC to "show cause" why his license shouldn't be revoked for transmitting "messages not necessary to the exchange of substantive communications related to the business or personal affairs of the persons concerned," for having used his station "for the purpose of uttering obscene, indecent, or profane language by means of radio, contrary to Title 18, United States Code, Section 1464." The FCC charges that he also transmitted messages "not addressed to specific persons or stations within the direct groundwave coverage range of the station being operated"; and transmitted "false or deceptive signals by radio" and identified his station "by a callsign not assigned by proper authority."

BYE-BYE CONELRAD (MAYBE)

Rumors are flying here in Washington that the Government is considering dropping the CONELRAD program as far as it involves CB and some other 2-way radio services.

TEETH GNASHINGS

The "Small Forfeitures" Bill, reported here in June, has just passed the Senate and moves on to the House of Representatives.

The FCC sponsored legislation would give the FCC statutory authority to impose light monetary forfeitures (\$100 to \$500) in cases of nonbroadcast radio rule violations which are not severe enough to warrant the most drastic sanctions which the FCC already has in its arsenal.

CW ON CB?

A number of CBers have written to this office asking us to check on the legality of a strong CW (code) station near the low end of the band. This is station LQH3/LQH5 in Buenos Aires, Argentina, not an American CBer. The station is in the International Fixed Service (Press).

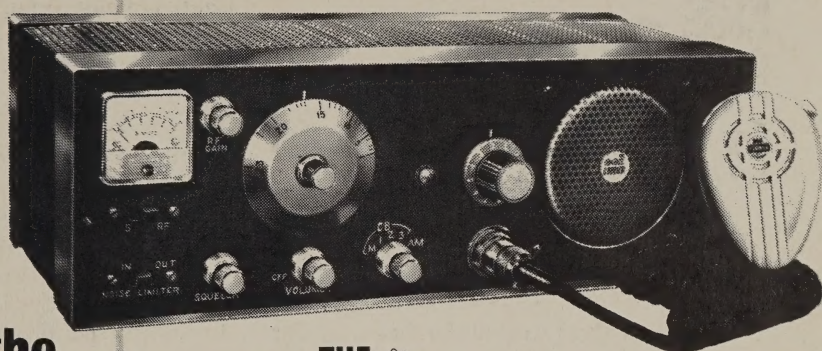
10-7 R.H.

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Courier 1

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The ECI COURIER I is truly a product of engineering excellence . . . the FIRST Citizens Band Transceiver to combine TRIPLE CONVERSION and TWO IF STAGES for the ultimate in selectivity and sensitivity. Intrusive harmonic images and adjacent channel interference are so radically reduced by this unique achievement that they are practically non-existent in the ECI COURIER.

THE COURIER I also features a built-in dial and crystal spotter, built-in noise limiter, built-in squelch that is triggered by .1 micro volt signal, and front panel adjustable RF gain control. The unit is constructed in five individual hand wired segments — a completely UNITIZED CHASSIS. All metal parts are cadmium plated for marine use. The entire unit slides out easily on tracks, and is housed in a rich chrome cabinet!



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The price? Just **\$189.50.***

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IMPORTANT NOTE TO DEALERS: Make sure to inquire about the E.C.I. exclusive franchise arrangement.

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OUTSTANDING CITIZENS BAND COMMUNICATION

from **hy-gain** antenna products

NEW MOBILE TOP LOADED STAINLESS STEEL WHIP

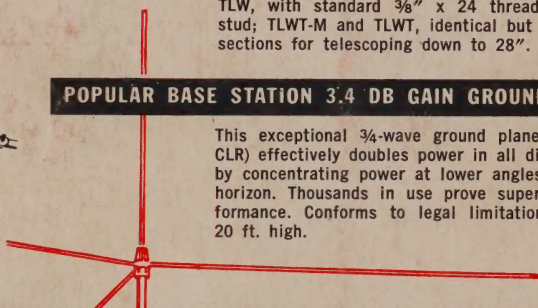
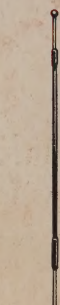
Exclusive new "top-loading" design utilizes polyethylene enclosed coil capsule sealed permanently to top portion of stainless steel whip, and nearly its same diameter.

This feature raises radiating portion of whip to highest point, increases resistance to perfect 52 ohm match, and allows for higher mounting on vehicle — all increasing superiority of performance. Overall height only 50". Rugged and ready for any climate or weather.

Four models available — TLW-M, with chrome plated, single hole, top mounting body mount; TLW, with standard $\frac{3}{8}$ " x 24 threaded base stud; TLWT-M and TLWT, identical but in three sections for telescoping down to 28".

POPULAR BASE STATION 3.4 DB GAIN GROUND PLANE

This exceptional $\frac{3}{4}$ -wave ground plane (Model CLR) effectively doubles power in all directions by concentrating power at lower angles to the horizon. Thousands in use prove superior performance. Conforms to legal limitations, only 20 ft. high.



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